

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036991.D
 Acq On : 19 May 2021 14:14
 Operator : SY/AP
 Sample : M2262-15 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Quant Time: May 20 06:28:59 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1232882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3671358	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3251670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2563901	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	27975	0.134 ppbv	99
3) Chlorodifluoromethane	2.97	51	26649	0.118 ppbv	100
4) Chloromethane	3.12	50	3774	0.049 ppbv	89
5) Vinyl Chloride	3.24	62	6789	0.081 ppbv #	81
6) Bromomethane	3.46	94	4942	0.112 ppbv #	66
7) Chloroethane	3.54	64	2243	0.082 ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	21308	0.109 ppbv	87
9) Propene	3.00	41	14001	0.173 ppbv	95
10) Heptane	8.10	43	7736	0.038 ppbv #	1
11) Trichlorofluoromethane	3.93	101	21686	0.112 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	10523	0.076 ppbv #	64
13) Ethanol	3.60	45	340	0.032 ppbv #	35
14) Bromoethene	3.73	108	3485	0.057 ppbv #	1
15) Acetone	3.87	43	23875	0.189 ppbv #	45
16) 1,3-Butadiene	3.31	39	3732	0.048 ppbv #	10
18) 1,1-Dichloroethene	4.27	96	3381	0.053 ppbv #	72
20) Methylene Chloride	4.32	84	4857	0.072 ppbv	98
21) Allyl Chloride	4.39	41	5487	0.058 ppbv #	5
22) trans-1,2-Dichloroethene	4.87	96	5279	0.086 ppbv	97
24) 1,1-Dichloroethane	4.99	63	14576	0.101 ppbv #	96
25) Ethyl Acetate	5.67	43	14474	0.048 ppbv #	75
26) Hexane	5.67	57	15304	0.099 ppbv #	73
27) Carbon Disulfide	4.53	76	6603	0.042 ppbv #	58
29) Chloroform	5.73	83	16689	0.076 ppbv	95
30) Cyclohexane	7.11	84	5986	0.045 ppbv #	1
31) cis-1,2-Dichloroethene	5.53	61	13130	0.094 ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	13111	0.056 ppbv #	35
35) Carbon Tetrachloride	7.00	117	8236	0.034 ppbv #	75
36) Benzene	6.87	78	32307	0.102 ppbv	97
37) 1,2-Dichloroethane	6.29	62	6586	0.042 ppbv #	61
38) Trichloroethene	7.80	130	6320	0.047 ppbv #	82
39) 1,2-Dichloropropane	7.15	63	866860	7.116 ppbv #	25
42) Bromodichloromethane	7.76	83	11849	0.050 ppbv #	83
44) 2,2,4-Trimethylpentane	7.84	57	26512	0.049 ppbv #	42
47) 1,1,2-Trichloroethane	9.46	97	8547	0.067 ppbv #	84
48) Dibromochloromethane	10.28	129	7165	0.035 ppbv #	1
52) Tetrachloroethene	11.19	164	4485	0.036 ppbv	92
53) Toluene	9.78	91	16600	0.044 ppbv #	19
54) 1,2-Dibromoethane	10.59	107	12158	0.067 ppbv	83
56) 1,1,1,2-Tetrachloroethane	12.10	131	5139	0.038 ppbv #	1
57) Chlorobenzene	12.12	112	17417	0.069 ppbv #	43

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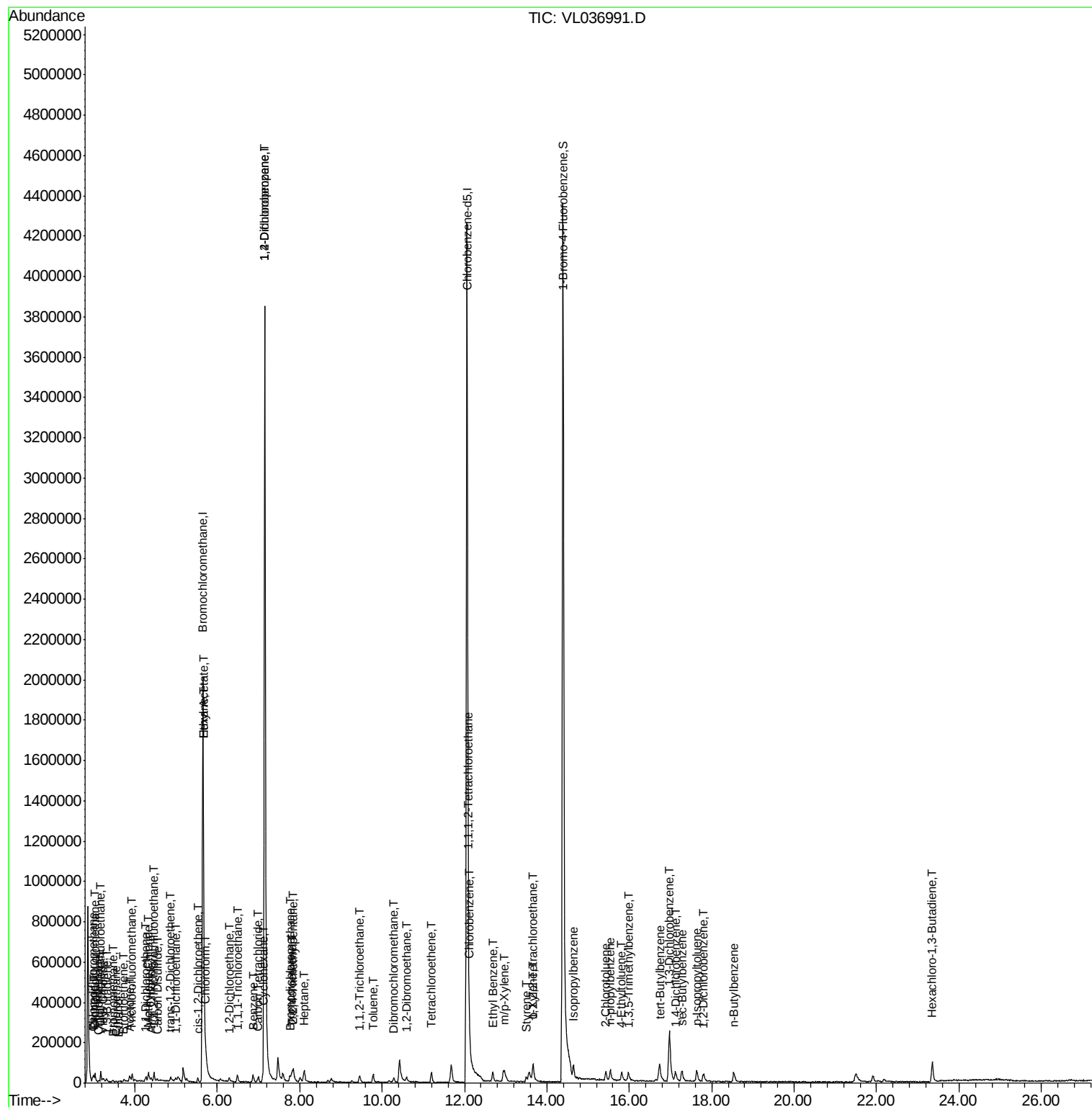
58) Ethyl Benzene	12.68	91	27037	0.059	ppbv	100
59) m/p-Xylene	12.97	91	15933	0.042	ppbv #	30
60) o-Xylene	13.66	91	23425	0.065	ppbv #	30
61) Styrene	13.50	104	7795	0.038	ppbv #	29
62) Isopropylbenzene	14.63	105	16855	0.032	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.65	83	8183	0.030	ppbv #	25
64) n-propylbenzene	15.54	120	6940	0.052	ppbv #	1
65) tert-Butylbenzene	16.73	119	27241	0.058	ppbv #	20
67) sec-Butylbenzene	17.28	105	29132	0.046	ppbv #	58
69) p-Isopropyltoluene	17.63	119	17924	0.033	ppbv #	48
70) n-Butylbenzene	18.53	91	18885	0.036	ppbv #	23
71) 2-Chlorotoluene	15.42	91	15796	0.042	ppbv #	42
72) 4-Ethyltoluene	15.81	105	16716	0.039	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.97	105	21156	0.052	ppbv	87
75) 1,3-Dichlorobenzene	16.98	146	16565	0.065	ppbv #	36
76) 1,4-Dichlorobenzene	17.12	146	15863	0.062	ppbv #	29
77) 1,2-Dichlorobenzene	17.79	146	11249	0.044	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	18529	0.090	ppbv #	58

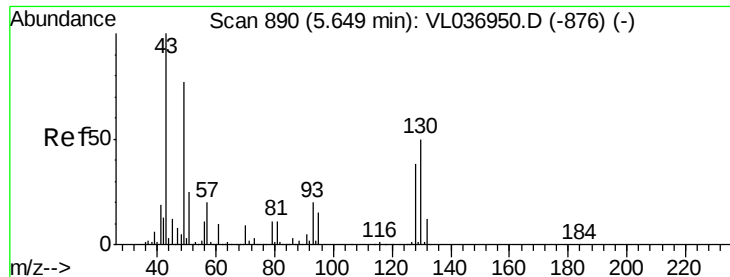
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036991.D

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MSVOA_L

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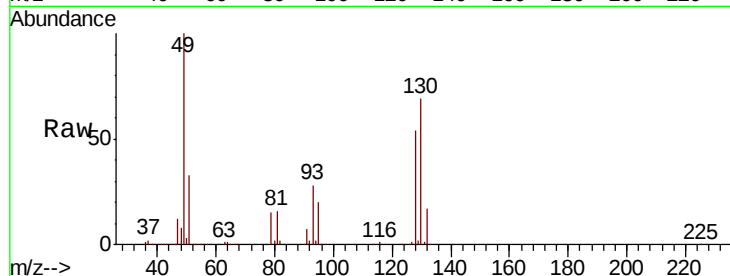
Tot Ion: 49 Resp: 1232882

Ion Ratio Lower Upper

49 100

128 56.2 26.9 80.7

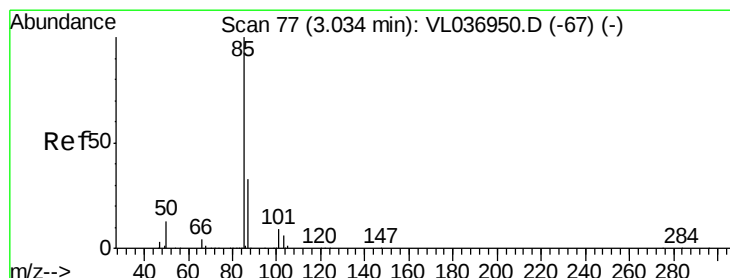
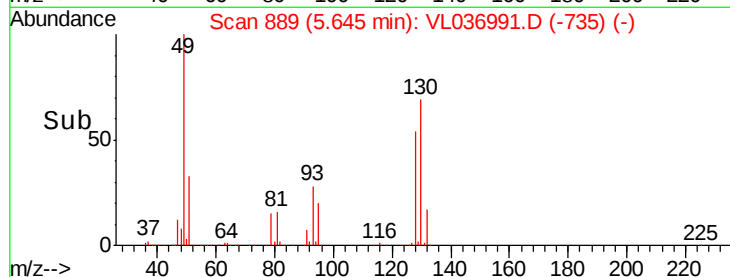
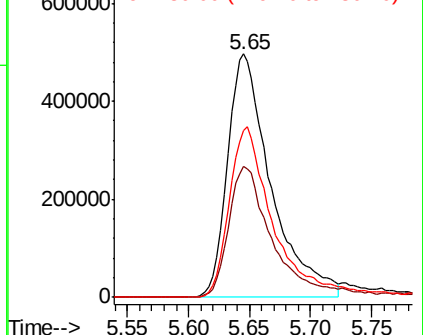
130 73.6 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.134 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036991.D

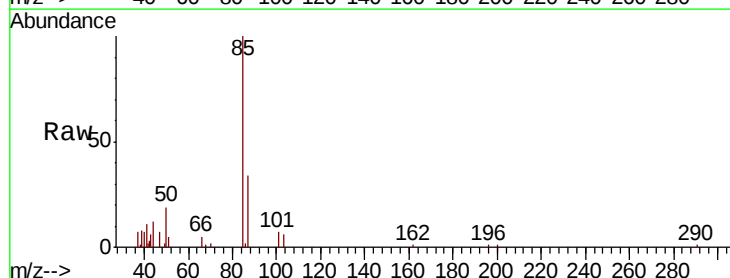
Acq: 19 May 2021 14:14

Tgt Ion: 85 Resp: 27975

Ion Ratio Lower Upper

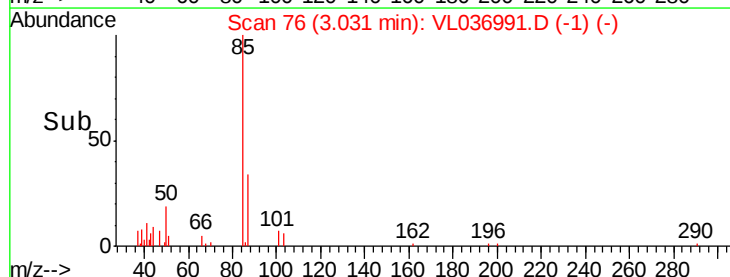
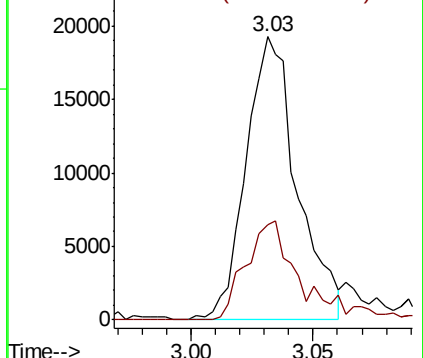
85 100

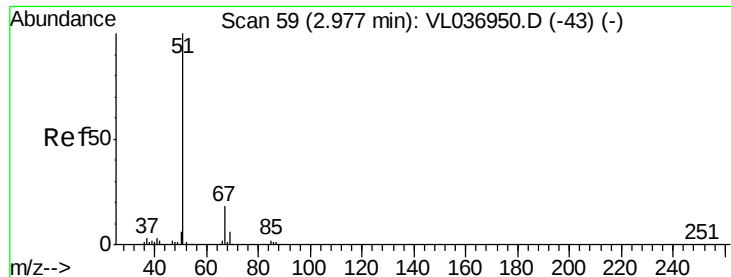
87 33.5 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.118 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

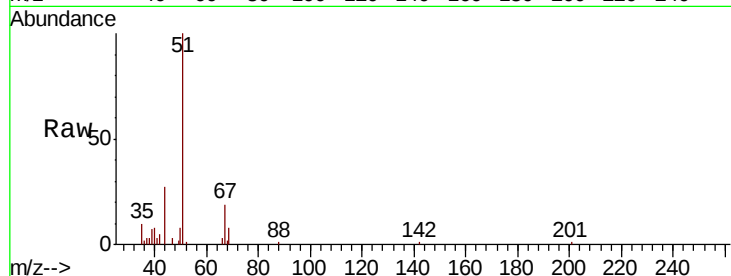
MDL-AIR-03-QT2-2021

Tot Ion: 51 Resp: 26649

Ion Ratio Lower Upper

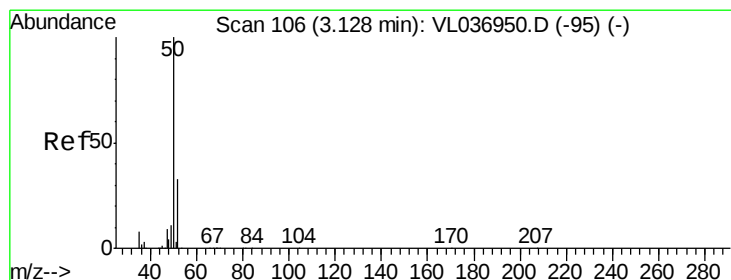
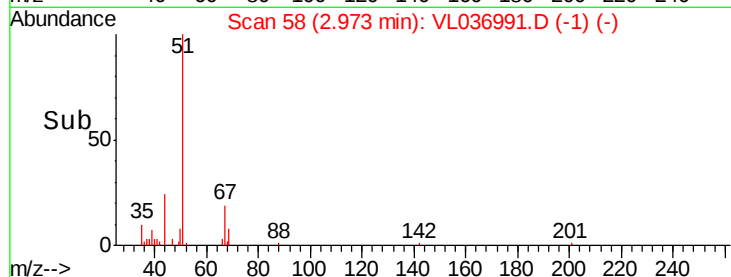
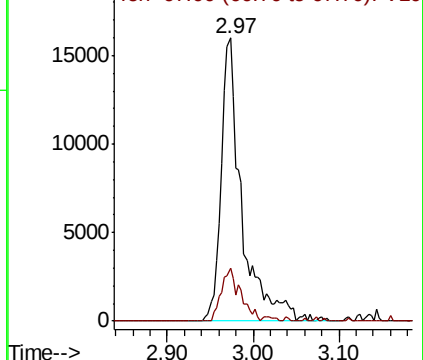
51 100

67 18.2 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL036991.D

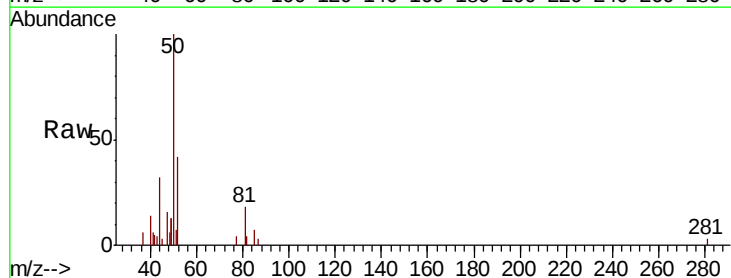
Acq: 19 May 2021 14:14

Tgt Ion: 50 Resp: 3774

Ion Ratio Lower Upper

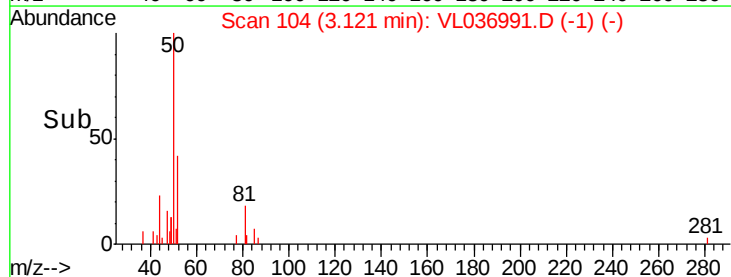
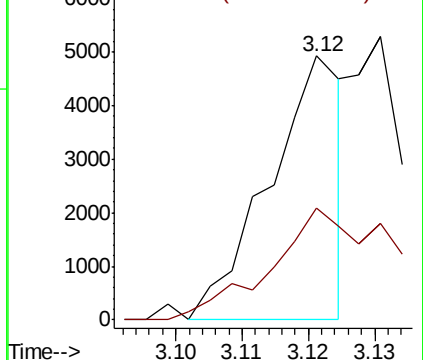
50 100

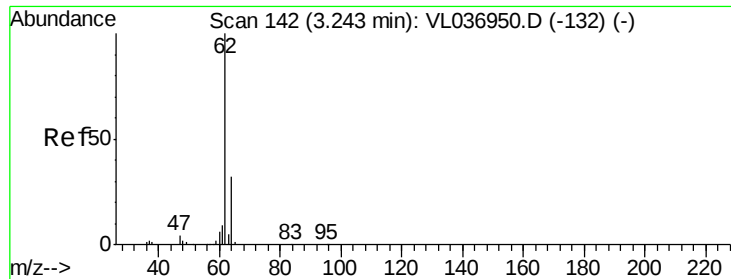
52 38.9 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.081 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

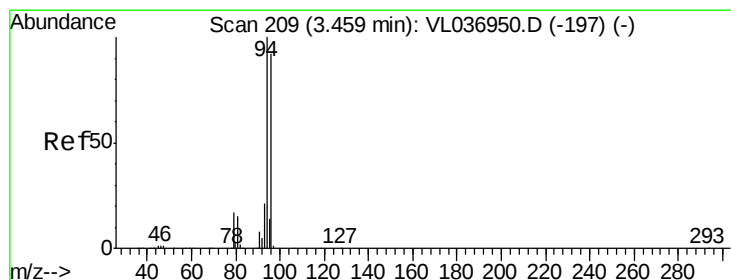
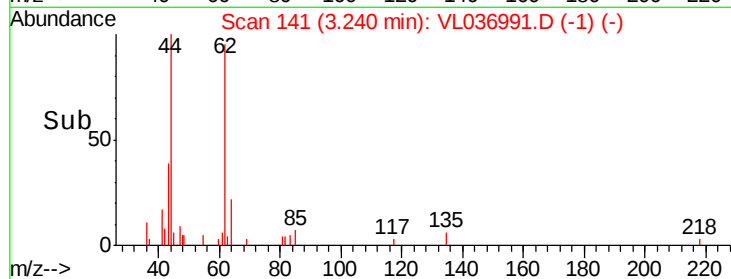
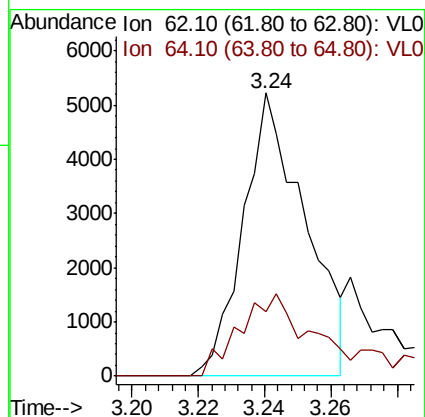
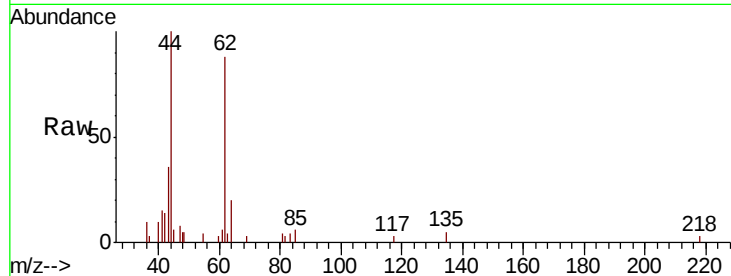
MDL-AIR-03-QT2-2021

Tot Ion: 62 Resp: 6789

Ion Ratio Lower Upper

62 100

64 21.8 25.9 38.9#



#6

Bromomethane

Concen: 0.112 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL036991.D

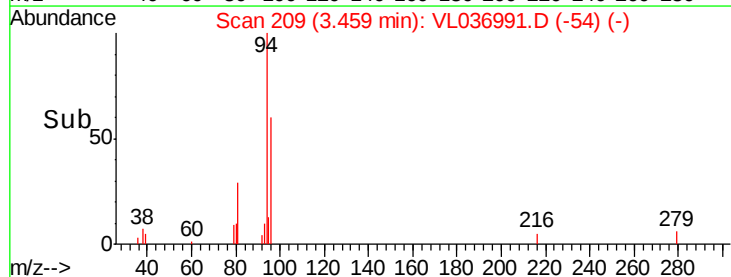
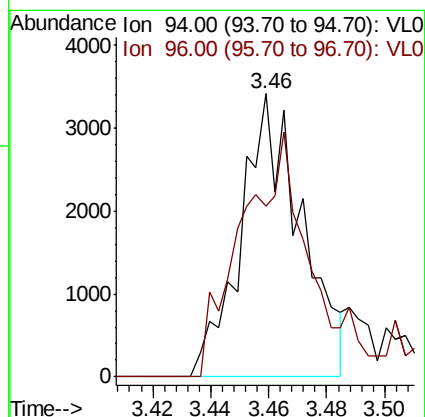
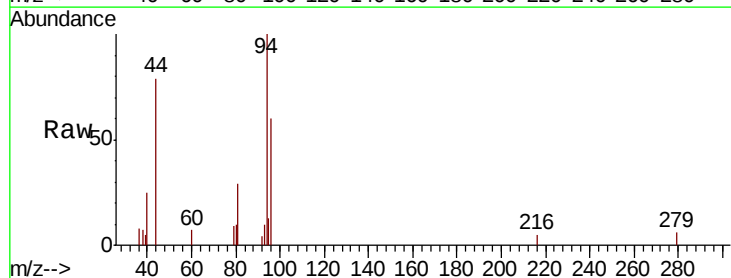
Acq: 19 May 2021 14:14

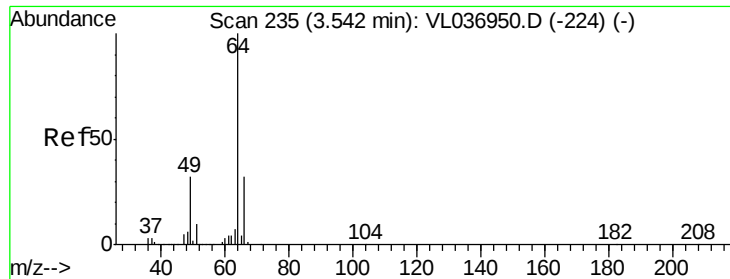
Tgt Ion: 94 Resp: 4942

Ion Ratio Lower Upper

94 100

96 60.3 74.0 111.0#





#7

Chloroethane

Concen: 0.082 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

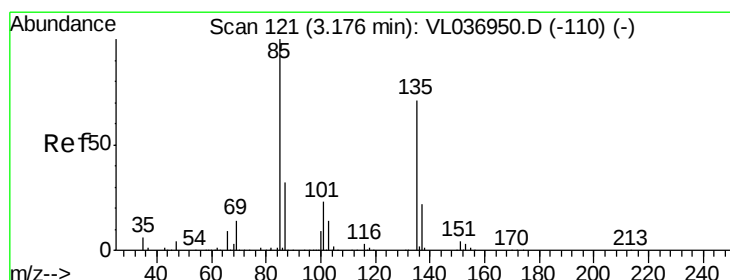
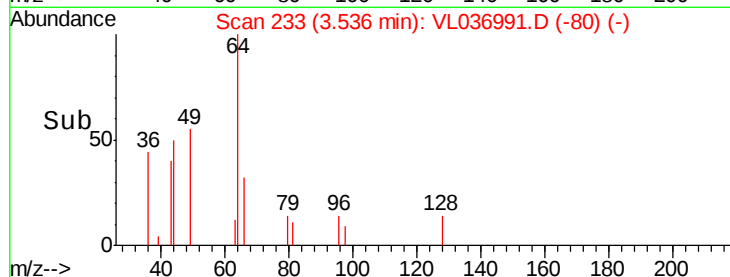
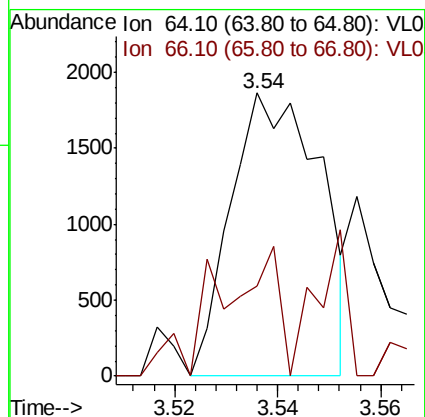
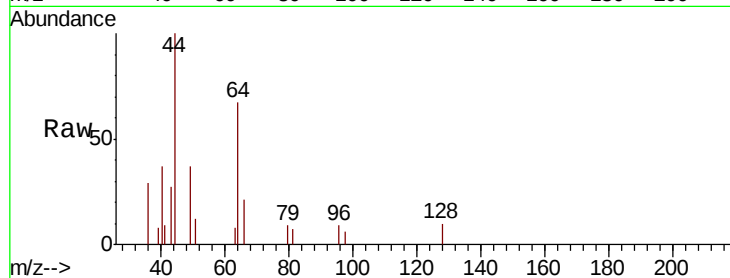
MDL-AIR-03-QT2-2021

Tot Ion: 64 Resp: 2243

Ion Ratio Lower Upper

64 100

66 31.9 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 0.109 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036991.D

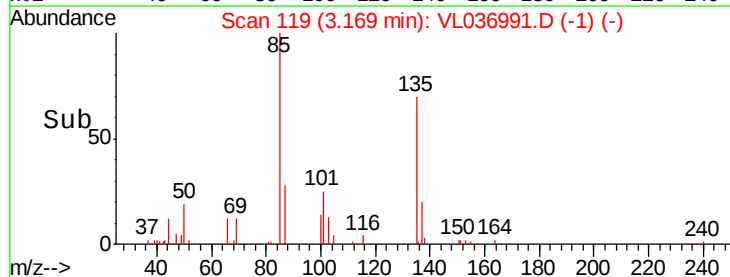
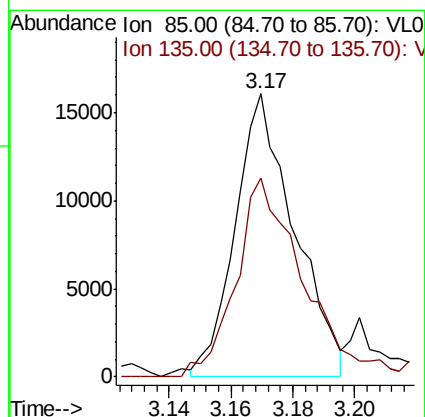
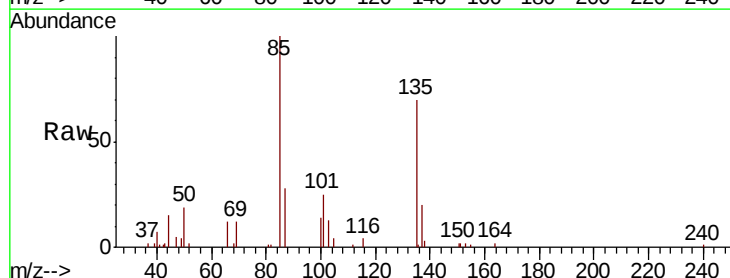
Acq: 19 May 2021 14:14

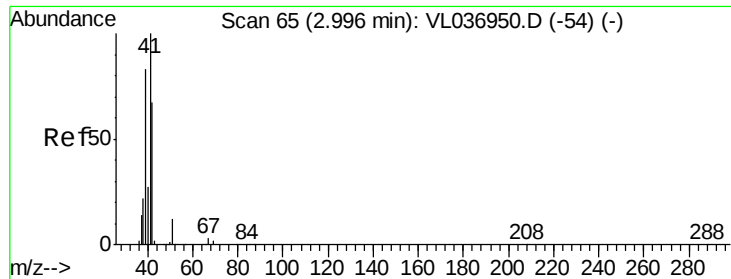
Tgt Ion: 85 Resp: 21308

Ion Ratio Lower Upper

85 100

135 83.0 57.7 86.5





#9

Propene

Concen: 0.173 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL036991.D

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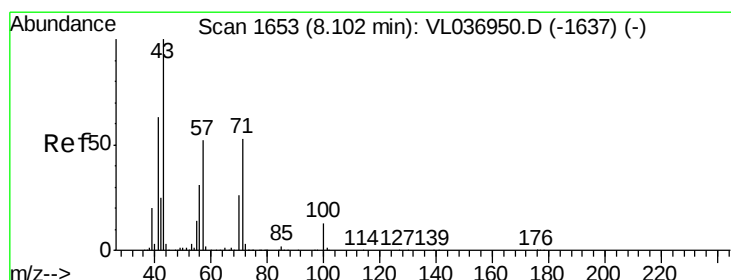
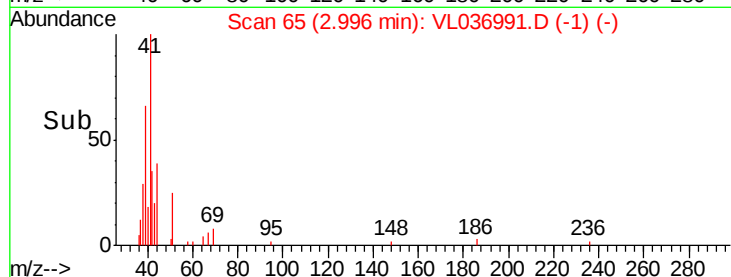
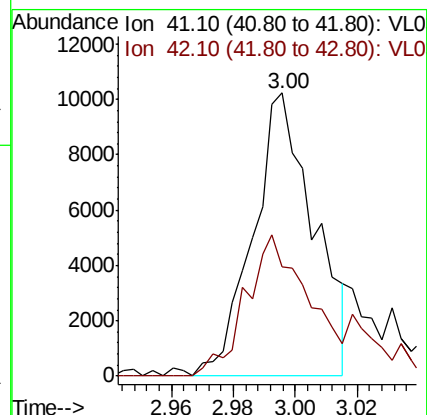
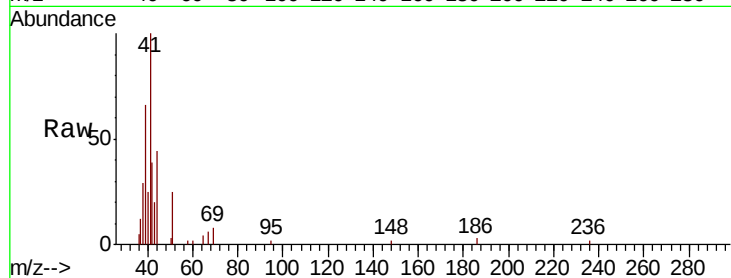
MDL-AIR-03-QT2-2021

Tot Ion: 41 Resp: 14001

Ion Ratio Lower Upper

41 100

42 63.2 53.9 80.9



#10

Heptane

Concen: 0.038 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL036991.D

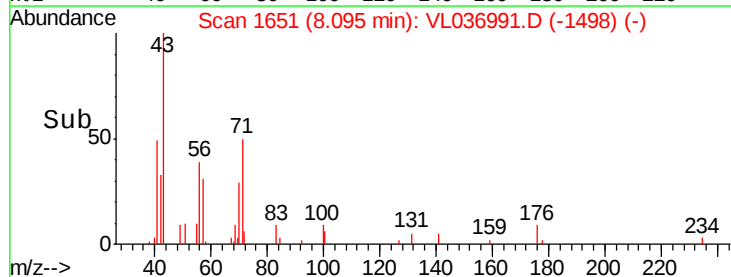
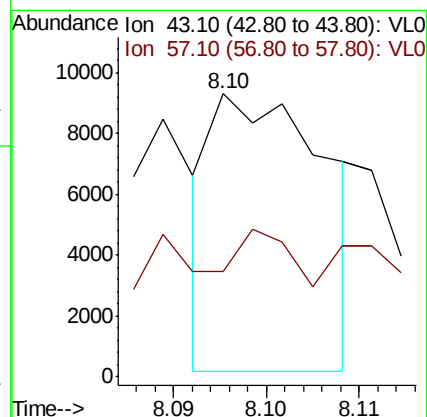
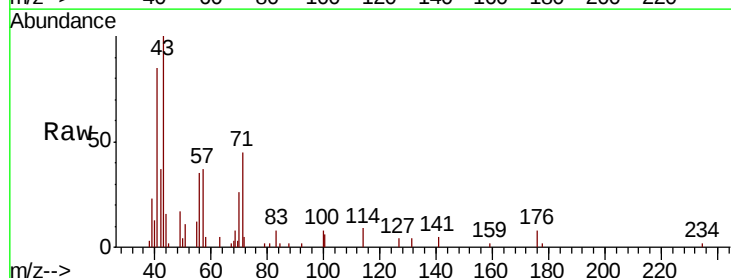
Acq: 19 May 2021 14:14

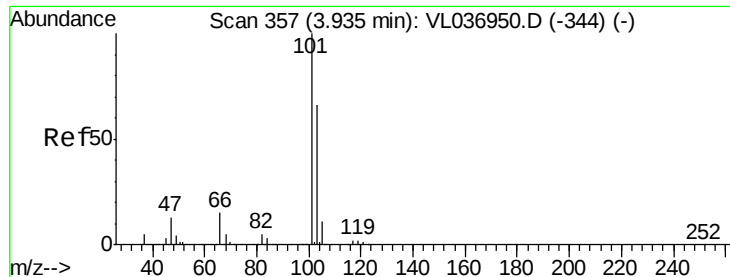
Tgt Ion: 43 Resp: 7736

Ion Ratio Lower Upper

43 100

57 165.7 41.0 61.6#

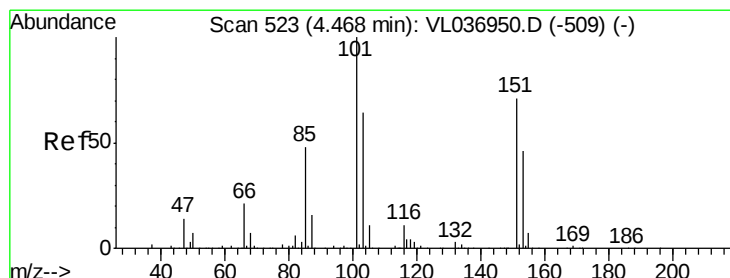
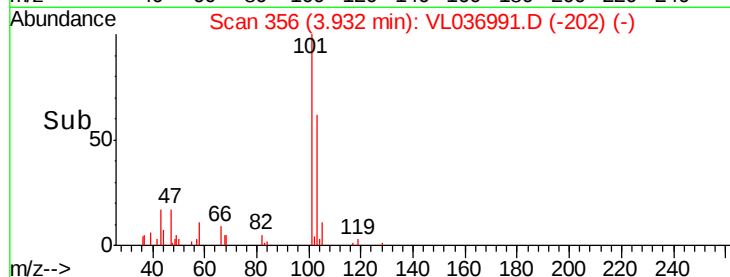
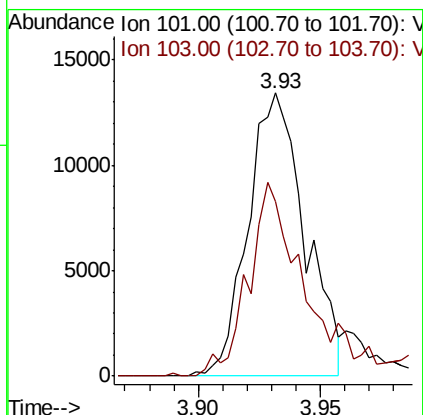
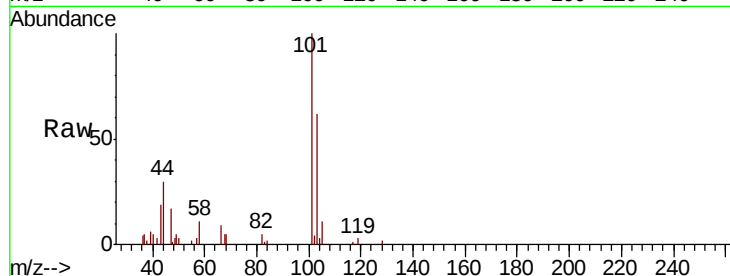




#11
 Trichlorofluoromethane
 Concen: 0.112 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
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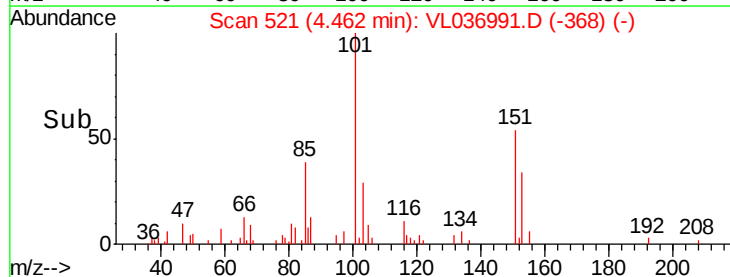
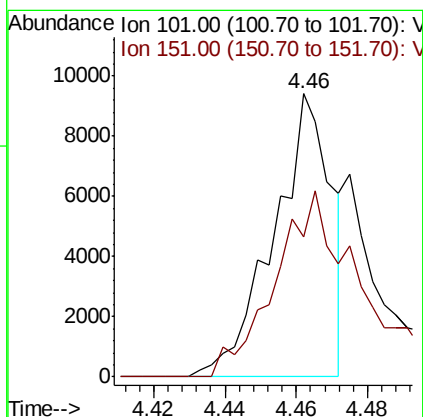
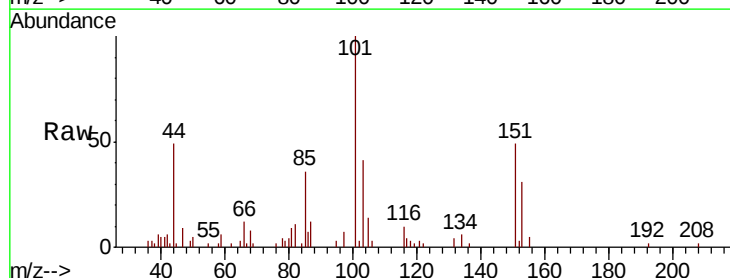
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

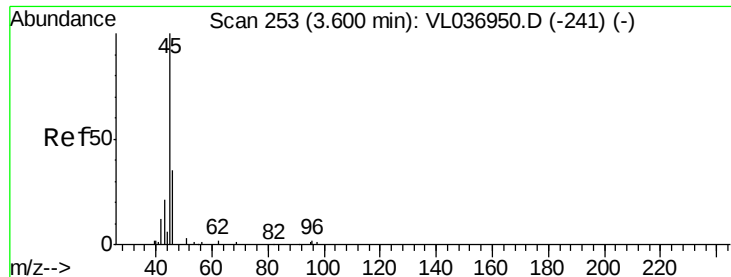
Tot Ion:101 Resp: 21686
 Ion Ratio Lower Upper
 101 100
 103 61.6 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion:101 Resp: 10523
 Ion Ratio Lower Upper
 101 100
 151 101.9 57.7 86.5#





#13

Ethanol

Concen: 0.032 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

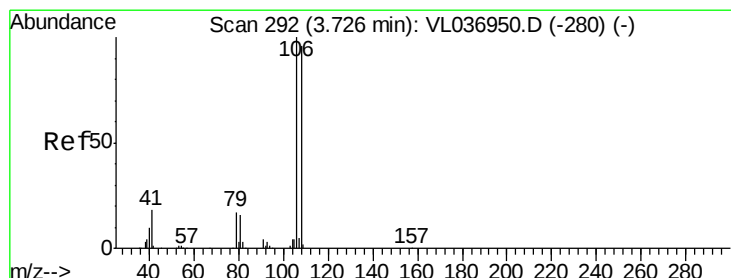
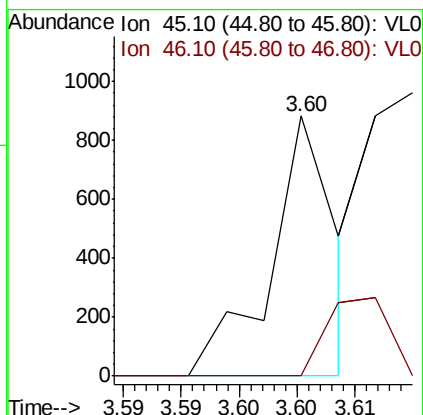
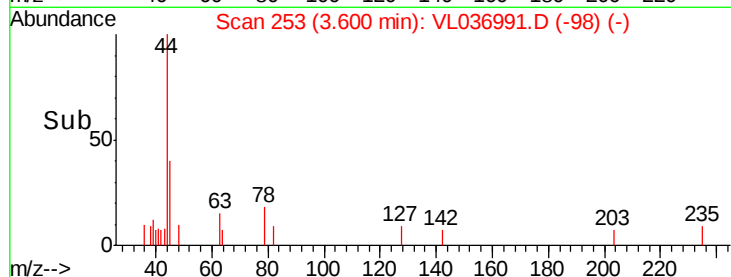
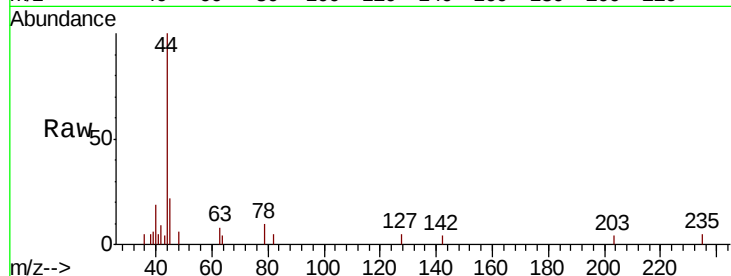
MDL-AIR-03-QT2-2021

Tot Ion: 45 Resp: 340

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#



#14

Bromoethene

Concen: 0.057 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

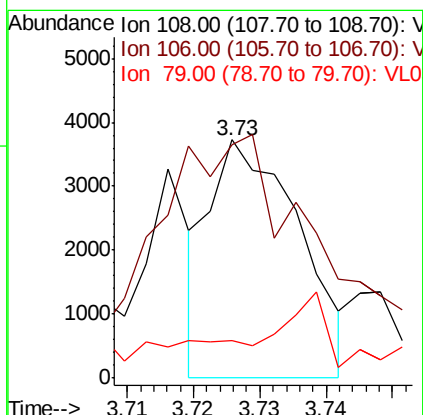
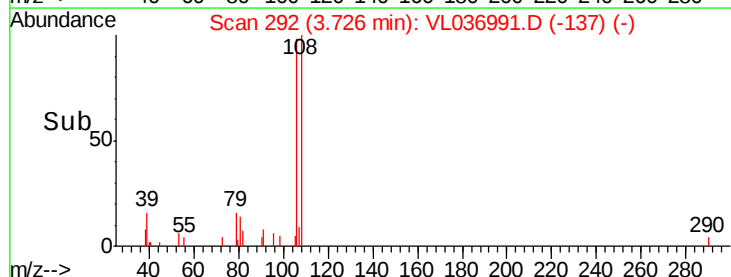
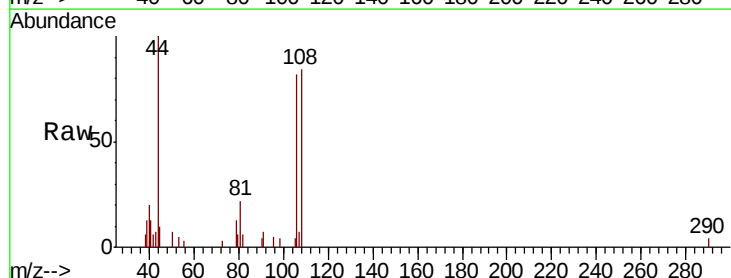
Tgt Ion: 108 Resp: 3485

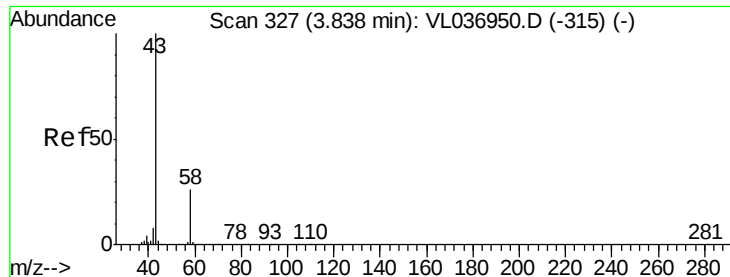
Ion Ratio Lower Upper

108 100

106 225.9 86.5 129.7#

79 0.0 15.0 22.4#





#15

Acetone

Concen: 0.189 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.03 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

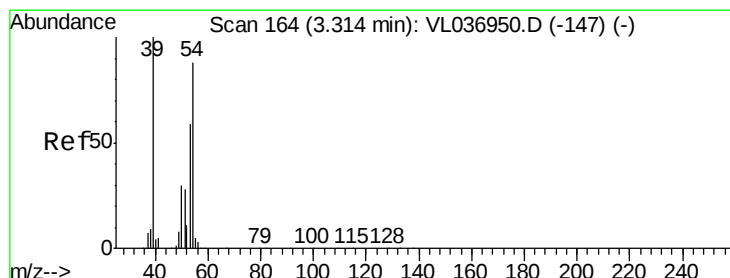
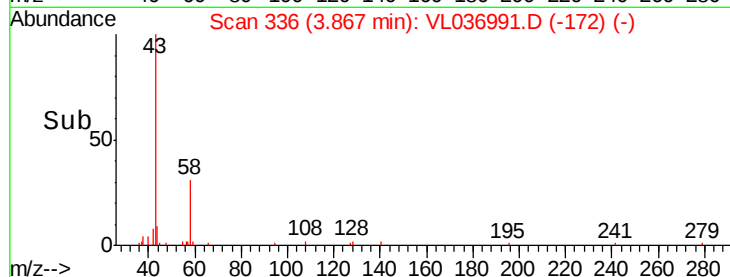
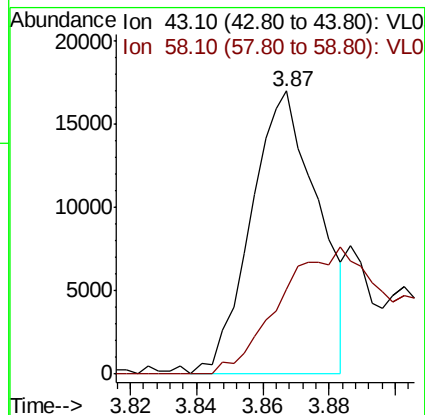
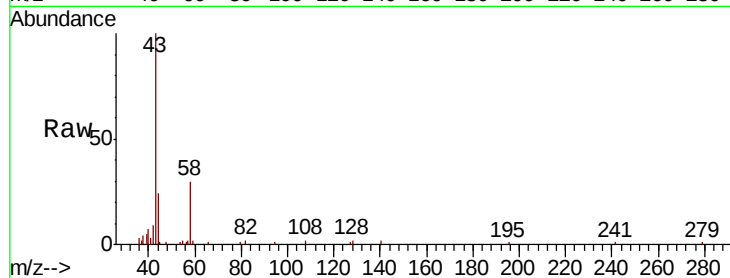
MDL-AIR-03-QT2-2021

Tot Ion: 43 Resp: 23875

Ion Ratio Lower Upper

43 100

58 0.0 24.0 36.0#



#16

1,3-Butadiene

Concen: 0.048 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.00 min

Lab File: VL036991.D

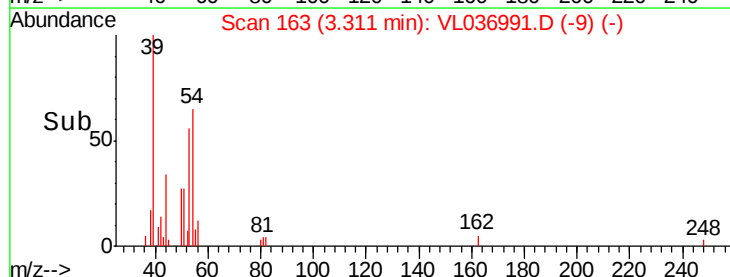
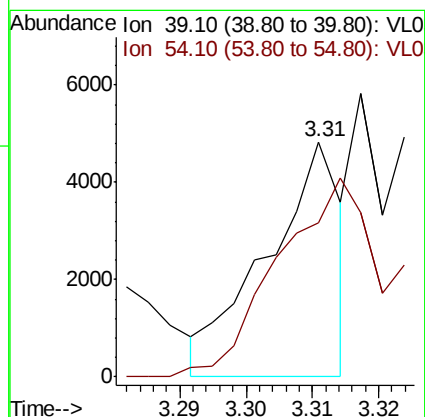
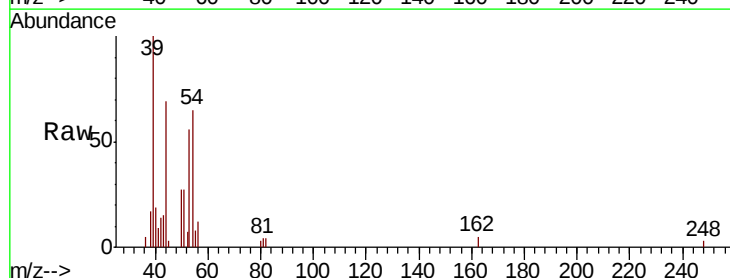
Acq: 19 May 2021 14:14

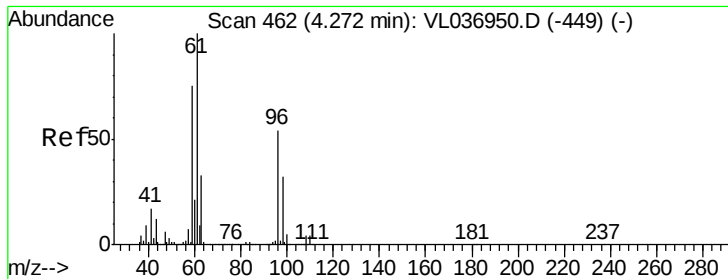
Tgt Ion: 39 Resp: 3732

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#





#18

1,1-Dichloroethene

Concen: 0.053 ppbv

RT: 4.27 min Scan# 460

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

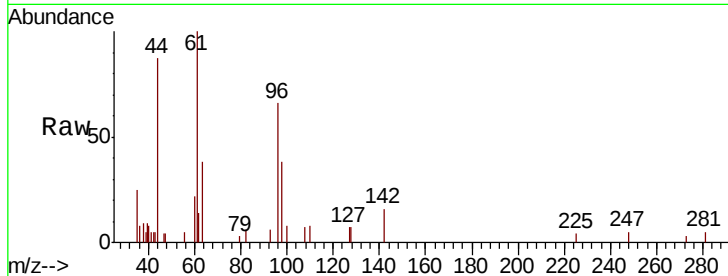
Tot Ion: 96 Resp: 3381

Ion Ratio Lower Upper

96 100

61 135.2 148.2 222.4#

98 52.6 47.8 71.6

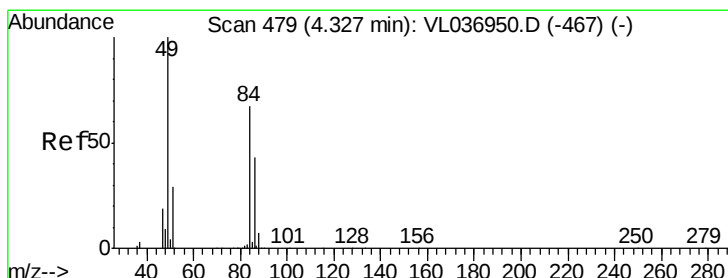
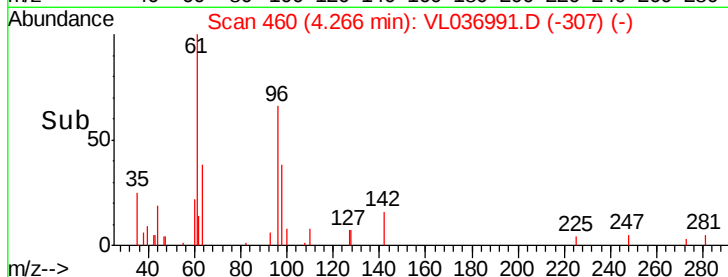
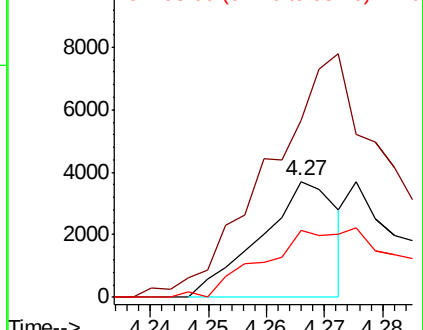


Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.072 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion: 84 Resp: 4857

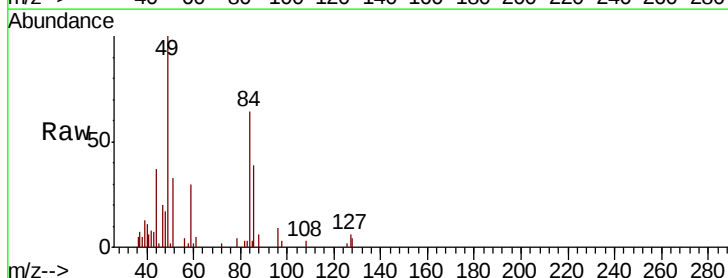
Ion Ratio Lower Upper

84 100

49 152.3 119.8 179.6

51 44.5 35.1 52.7

86 61.1 50.9 76.3



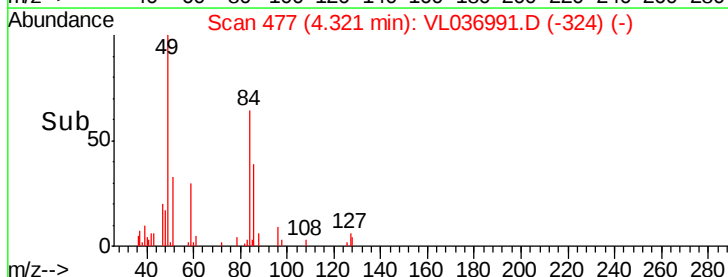
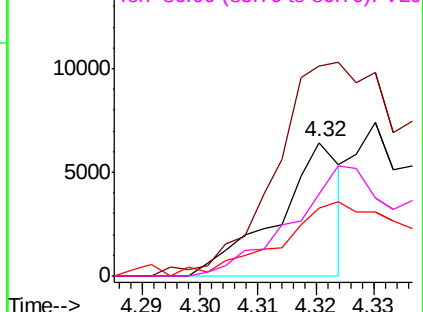
Abundance

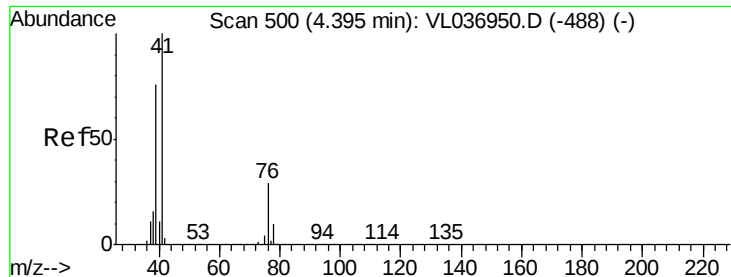
Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.058 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

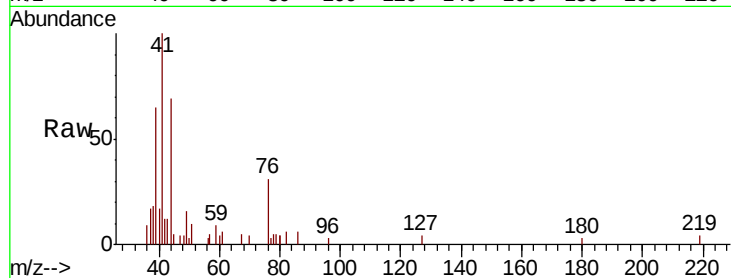
Tot Ion: 41 Resp: 5487

Ion Ratio Lower Upper

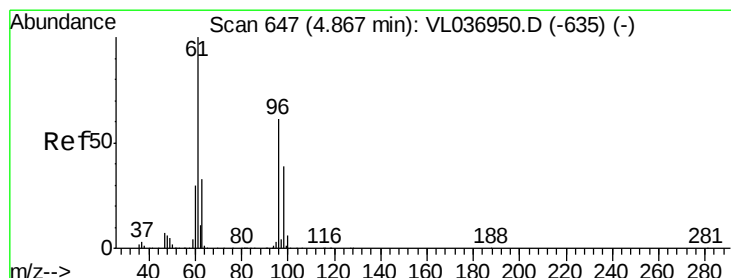
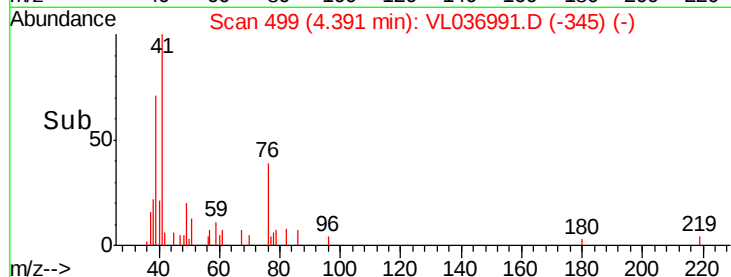
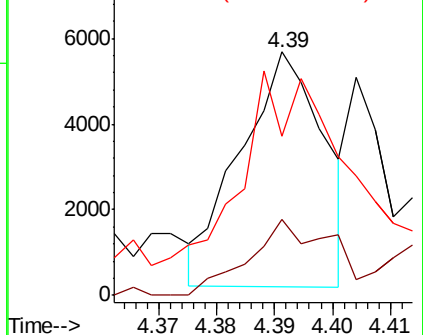
41 100

76 52.7 24.9 37.3#

39 182.1 63.7 95.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.086 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

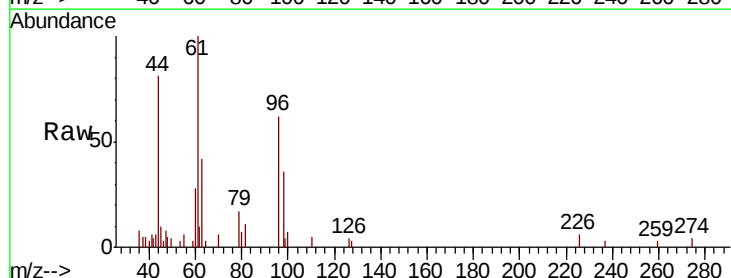
Tgt Ion: 96 Resp: 5279

Ion Ratio Lower Upper

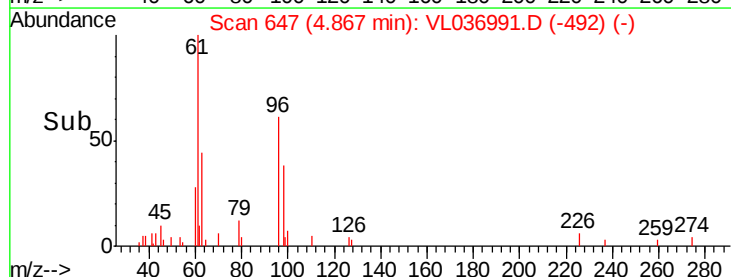
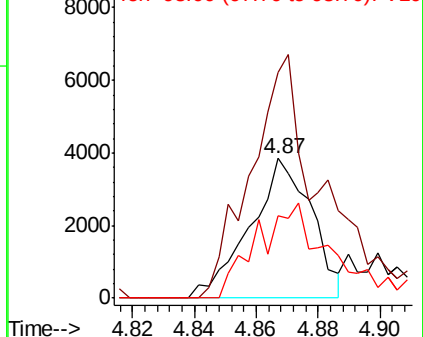
96 100

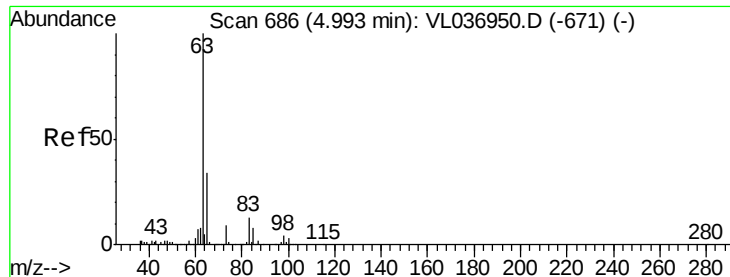
61 161.6 130.6 196.0

98 58.8 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 0.101 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

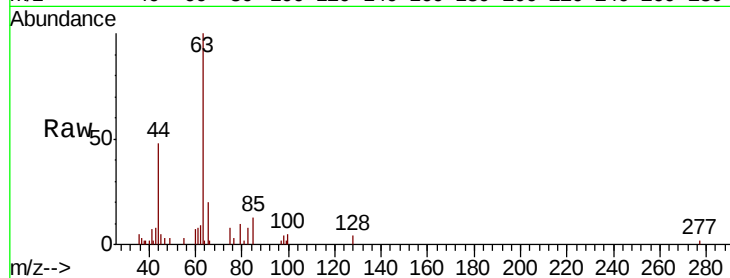
Tot Ion: 63 Resp: 14576

Ion Ratio Lower Upper

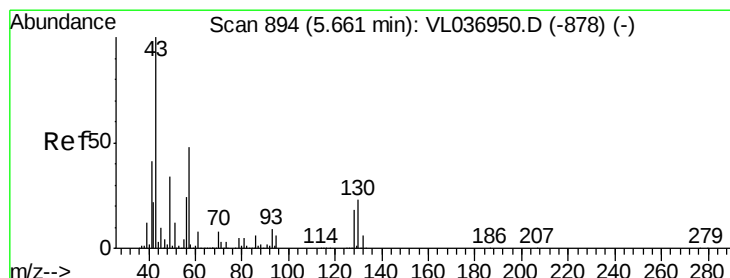
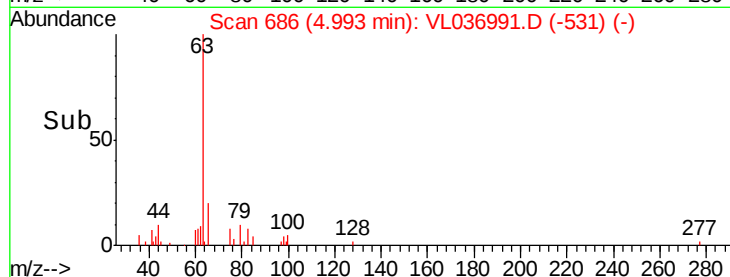
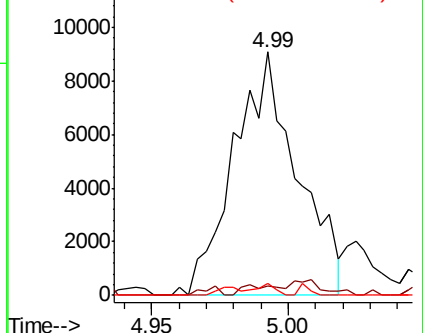
63 100

98 3.9 2.3 6.9

100 5.1 1.4 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.048 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion: 43 Resp: 14474

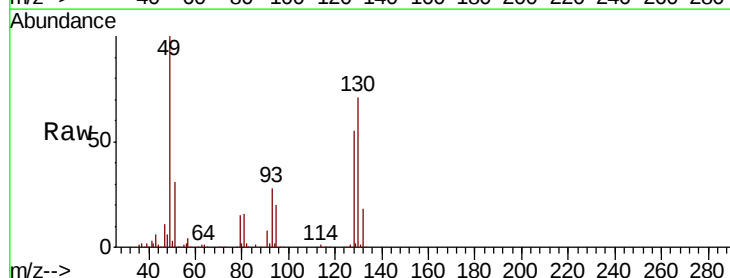
Ion Ratio Lower Upper

43 100

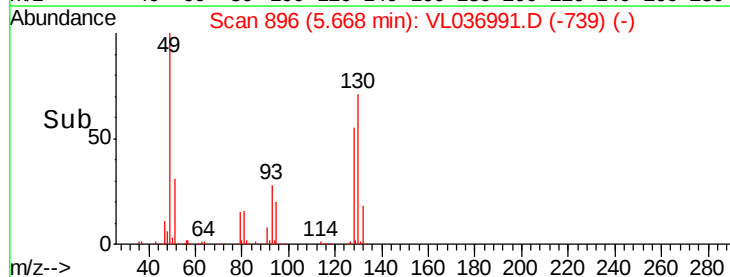
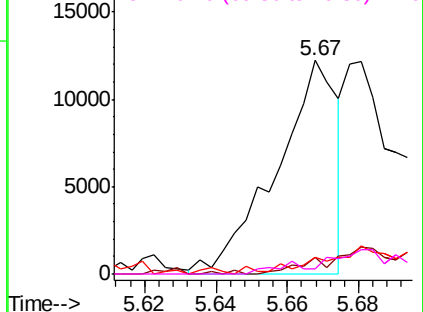
45 0.0 7.8 11.8#

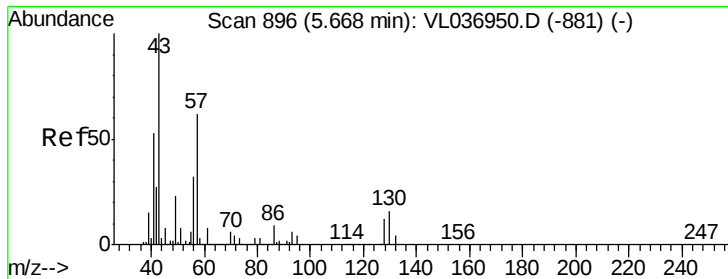
61 0.0 7.8 11.8#

70 0.0 5.6 8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.099 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 57 Resp: 15304

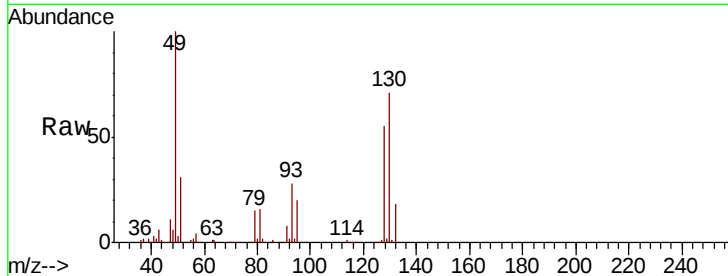
Ion Ratio Lower Upper

57 100

41 120.0 70.5 105.7#

43 245.6 165.8 248.8

56 71.2 42.2 63.4#

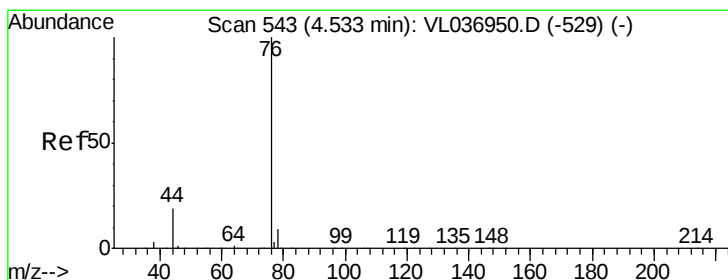
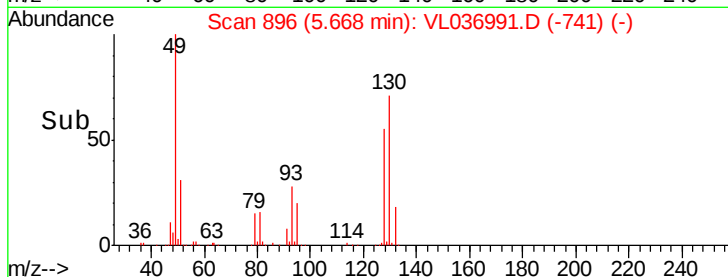
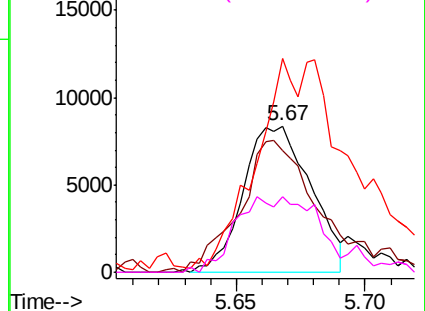


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.042 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

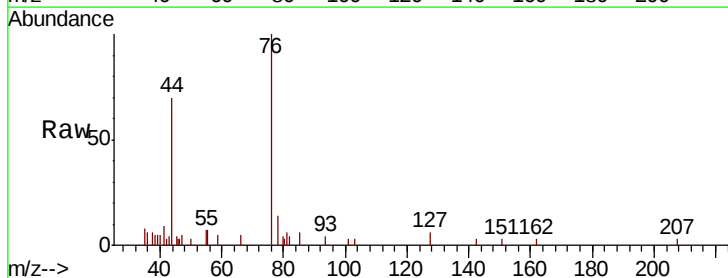
Tgt Ion: 76 Resp: 6603

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

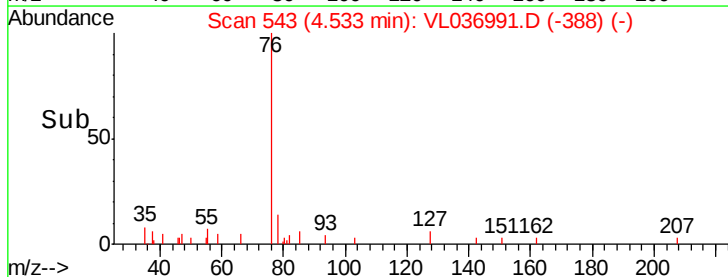
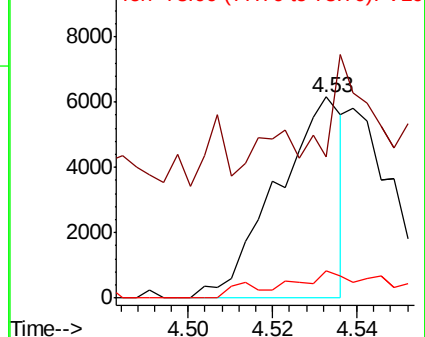
78 24.8 7.8 11.6#

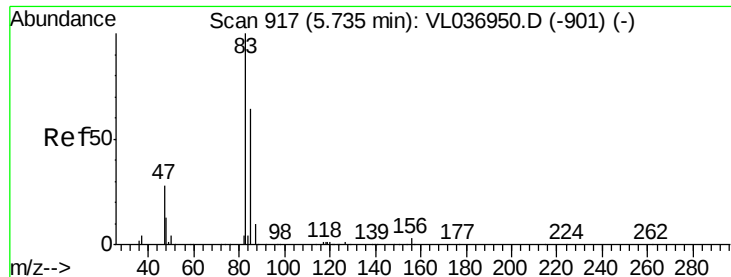


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.076 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

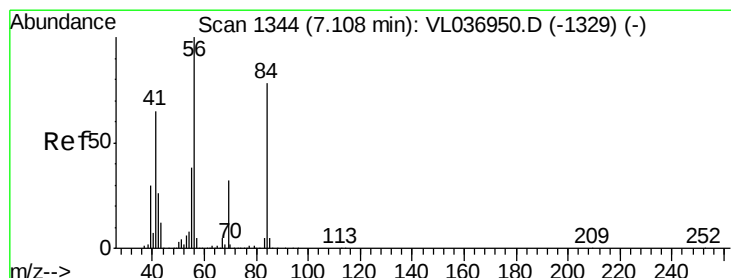
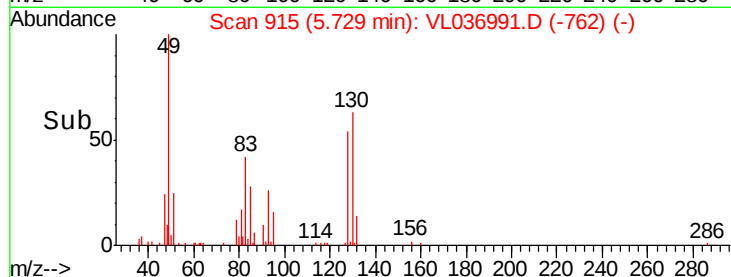
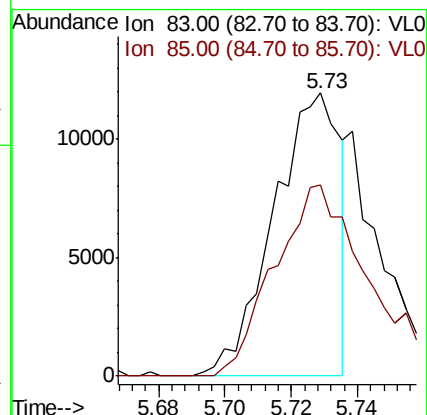
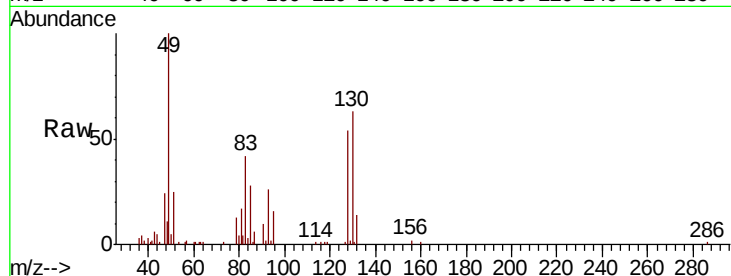
MDL-AIR-03-QT2-2021

Tot Ion: 83 Resp: 16689

Ion Ratio Lower Upper

83 100

85 67.5 51.1 76.7



#30

Cyclohexane

Concen: 0.045 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

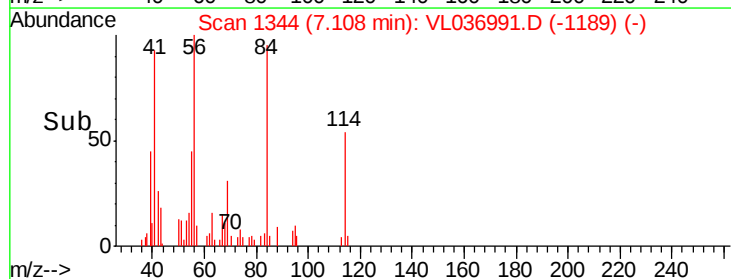
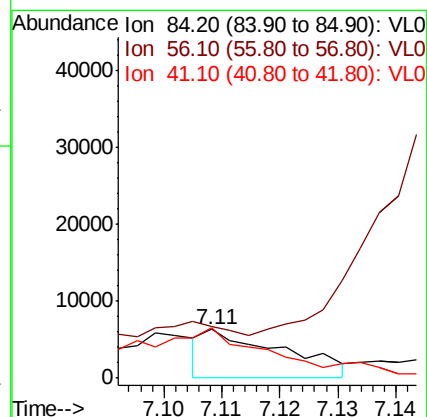
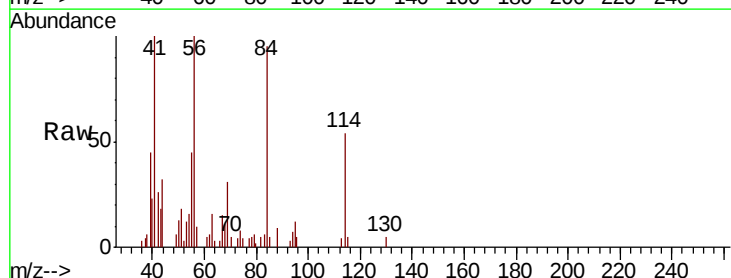
Tgt Ion: 84 Resp: 5986

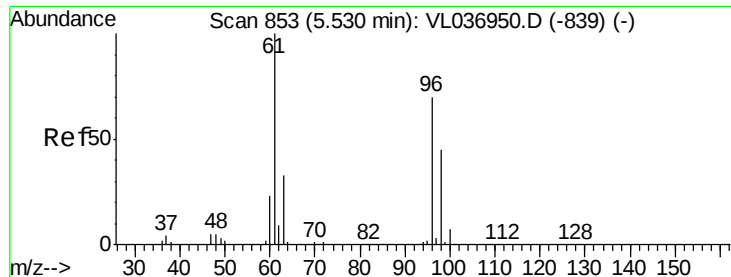
Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

41 237.5 65.5 98.3#



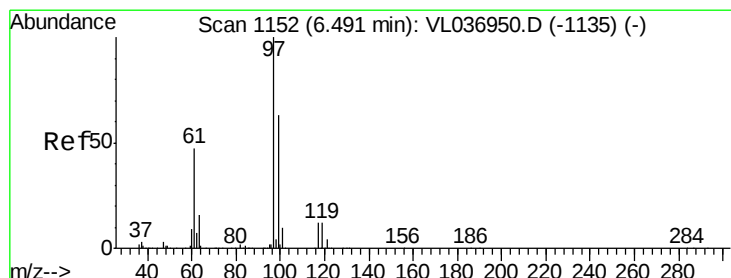
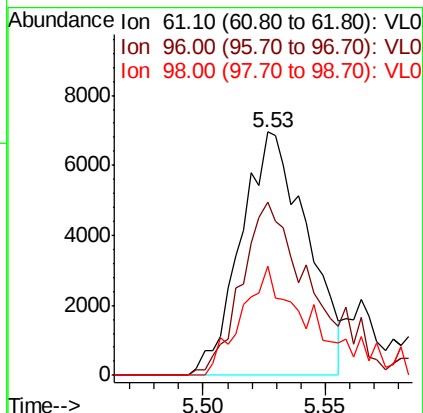
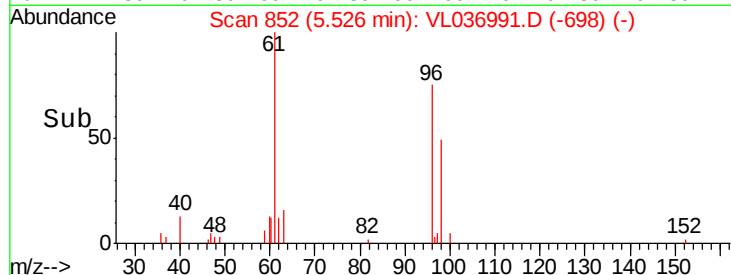
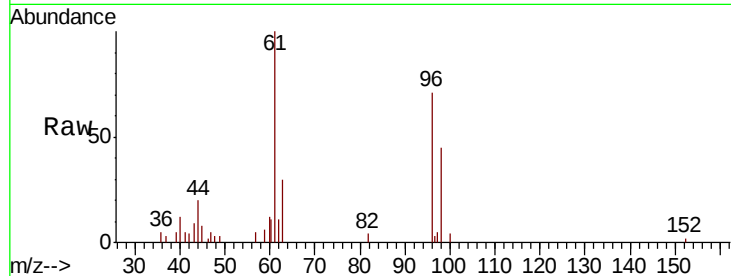


#31

cis-1,2-Dichloroethene
 Concen: 0.094 ppbv
 RT: 5.53 min Scan# 852
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

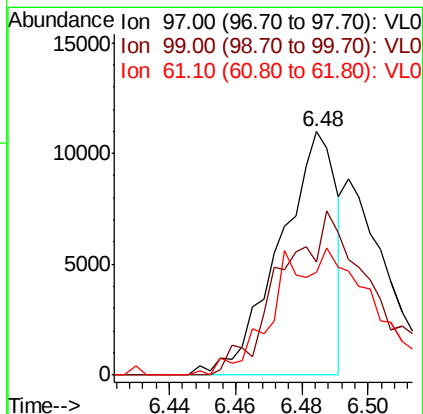
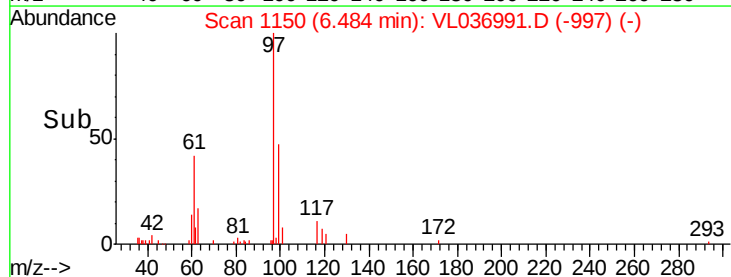
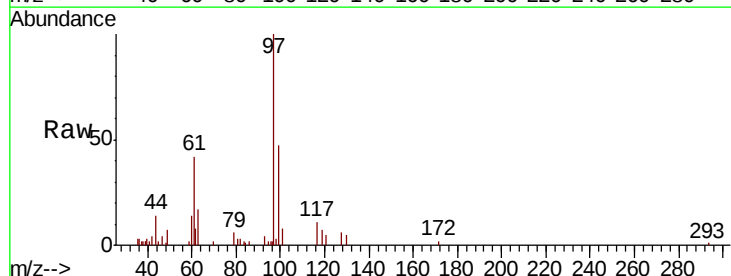
Tot Ion:	61	Resp:	13130
Ion	Ratio	Lower	Upper
61	100		
96	74.0	55.9	83.9
98	44.7	35.6	53.4

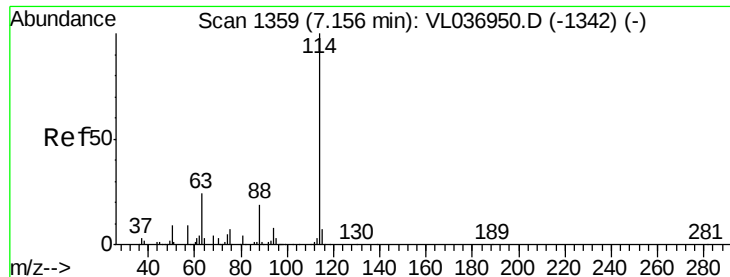


#32

1,1,1-Trichloroethane
 Concen: 0.056 ppbv
 RT: 6.48 min Scan# 1150
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion:	97	Resp:	13111
Ion	Ratio	Lower	Upper
97	100		
99	114.3	51.9	77.9#
61	93.4	37.6	56.4#

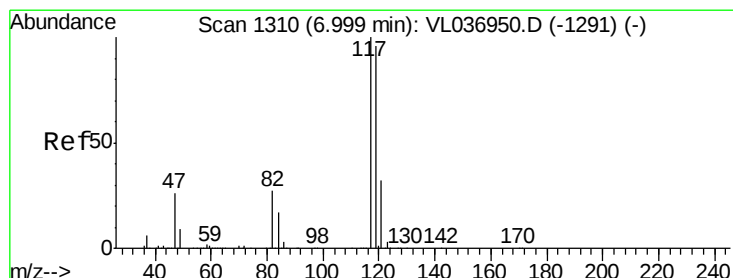
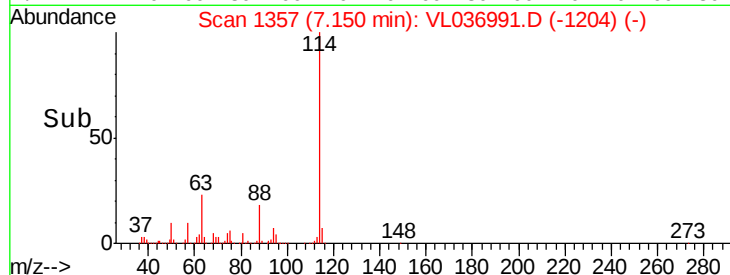
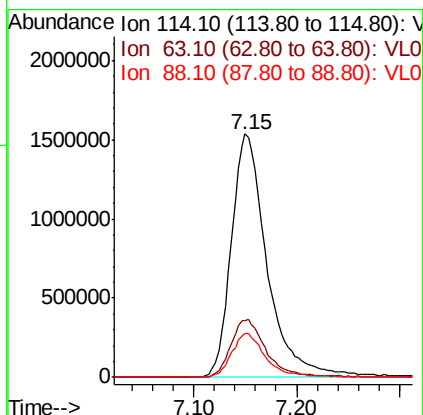
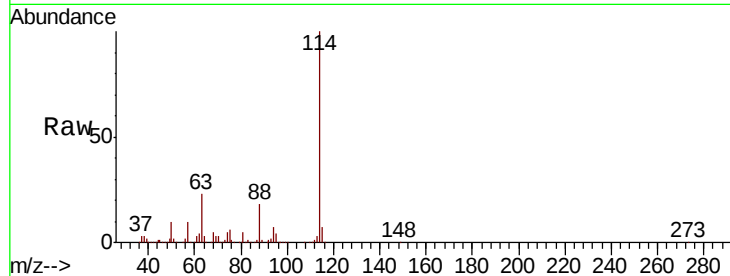




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

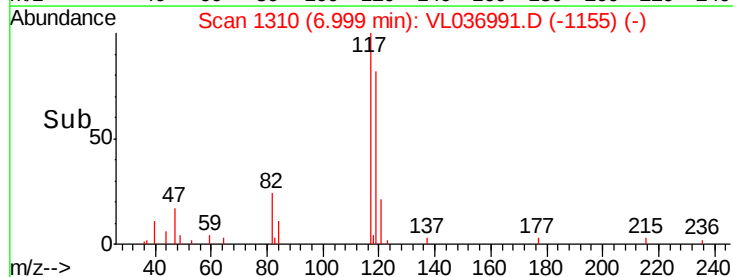
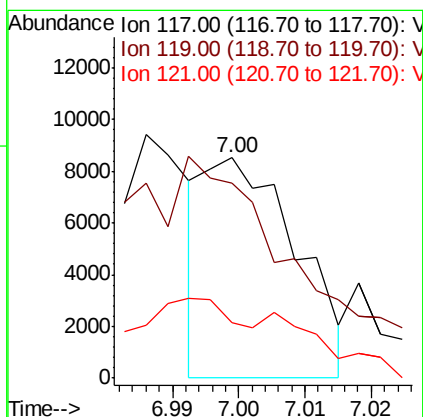
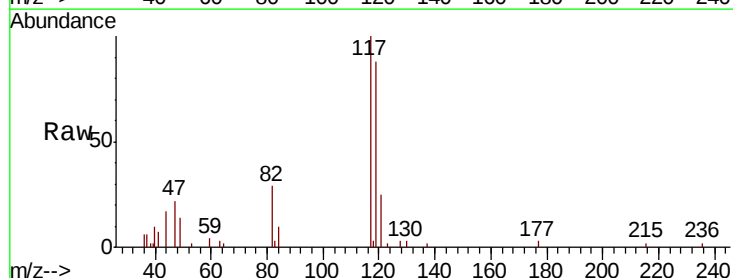
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

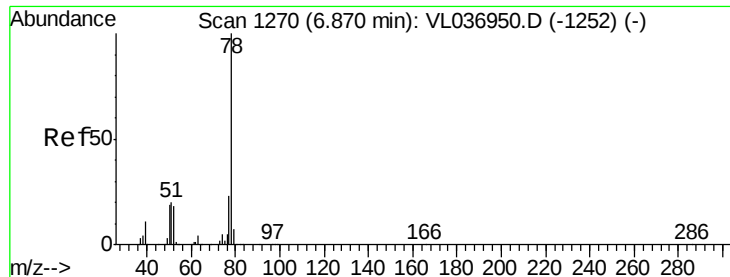
Tot Ion:114 Resp: 3671358
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 17.8 14.6 21.8



#35
 Carbon Tetrachloride
 Concen: 0.034 ppbv
 RT: 7.00 min Scan# 1310
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion:117 Resp: 8236
 Ion Ratio Lower Upper
 117 100
 119 69.6 76.6 114.8#
 121 21.8 25.8 38.6#





#36

Benzene

Concen: 0.102 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

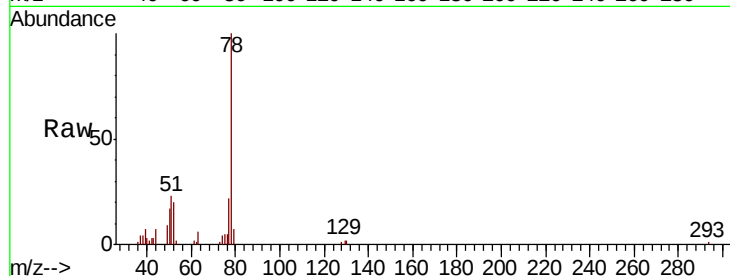
Tot Ion: 78 Resp: 32307

Ion Ratio Lower Upper

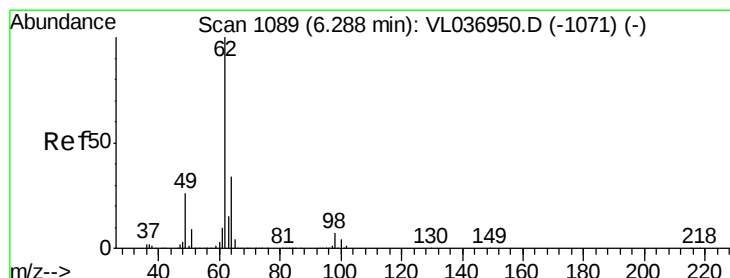
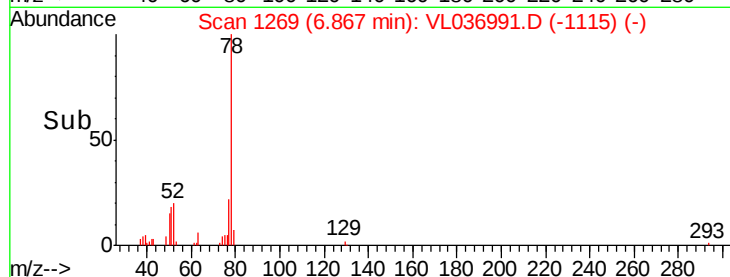
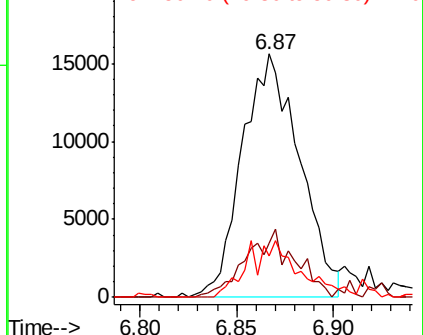
78 100

77 22.3 18.6 28.0

50 17.1 15.0 22.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.042 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VL036991.D

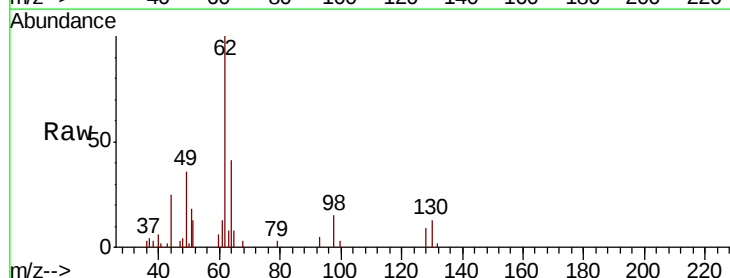
Acq: 19 May 2021 14:14

Tgt Ion: 62 Resp: 6586

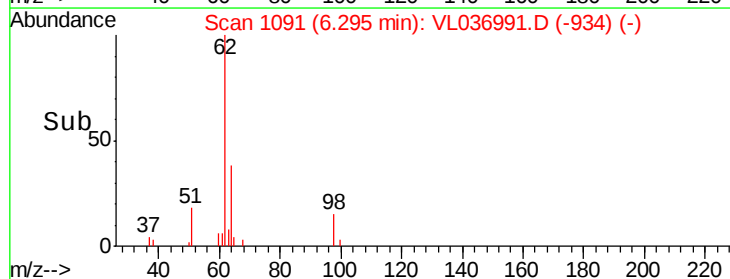
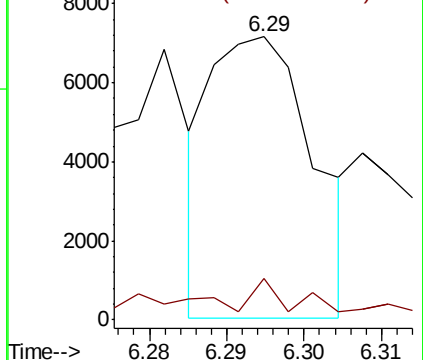
Ion Ratio Lower Upper

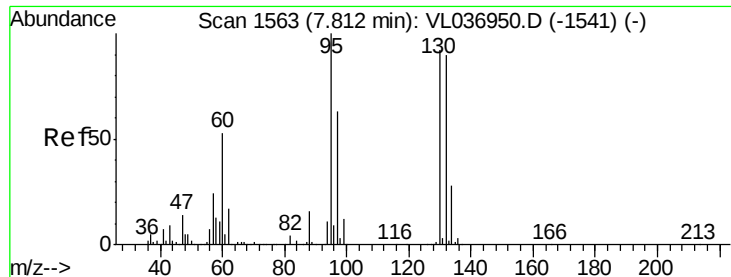
62 100

98 20.3 5.5 8.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.047 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

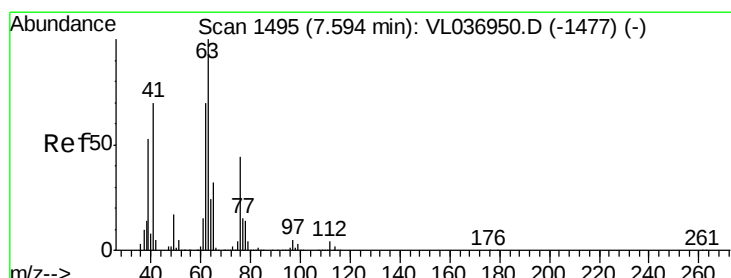
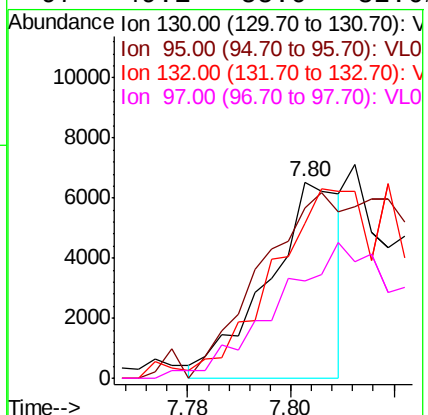
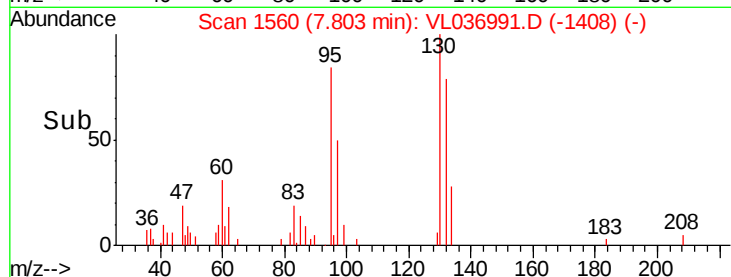
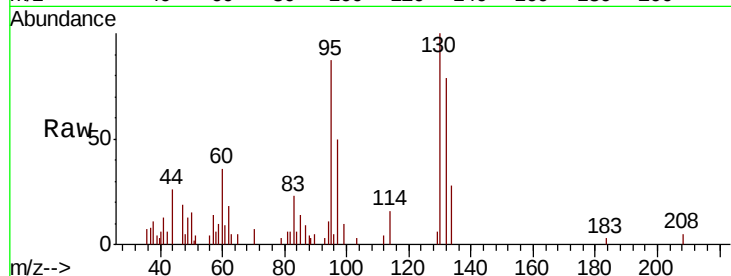
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:130	Resp:	6320
Ion	Ratio	Lower Upper
130	100	
95	92.9	86.9 130.3
132	80.4	78.4 117.6
97	49.1	55.0 82.6#



#39

1,2-Dichloropropane

Concen: 7.116 ppbv

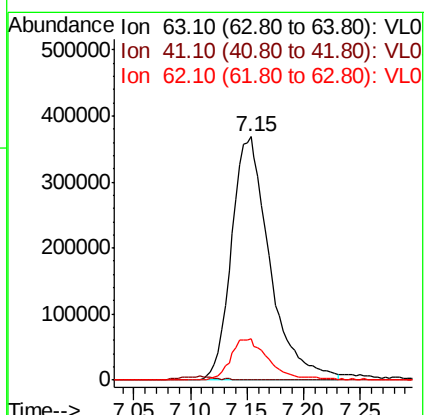
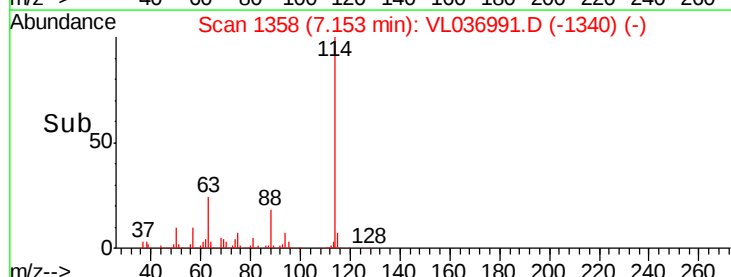
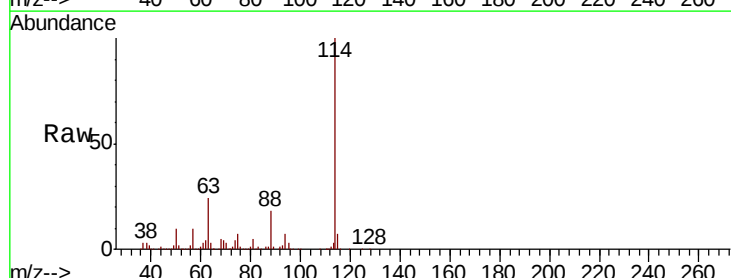
RT: 7.15 min Scan# 1358

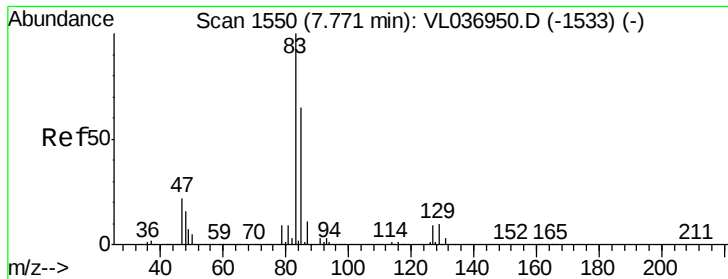
Delta R.T. -0.44 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion: 63	Resp:	866860
Ion	Ratio	Lower Upper
63	100	
41	0.2	55.7 83.5#
62	16.9	56.2 84.4#





#42

Bromodichloromethane

Concen: 0.050 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

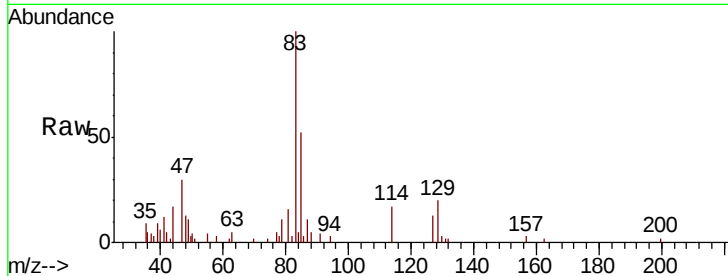
Tot Ion: 83 Resp: 11849

Ion Ratio Lower Upper

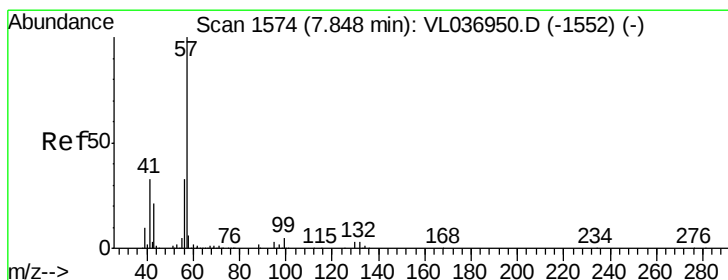
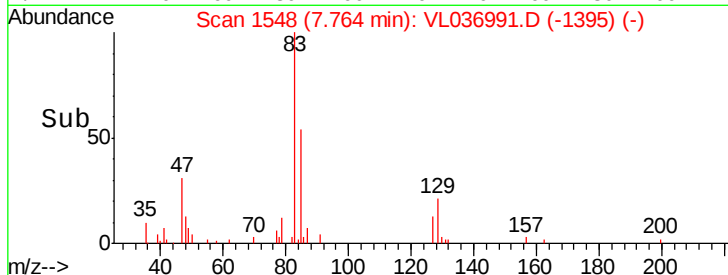
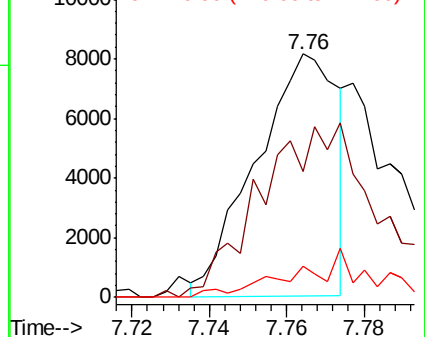
83 100

85 51.1 51.7 77.5#

127 13.5 6.9 10.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

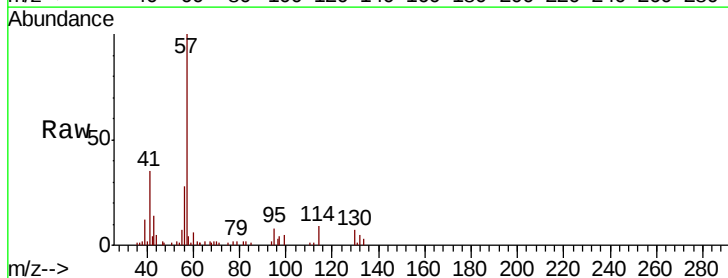
Tgt Ion: 57 Resp: 26512

Ion Ratio Lower Upper

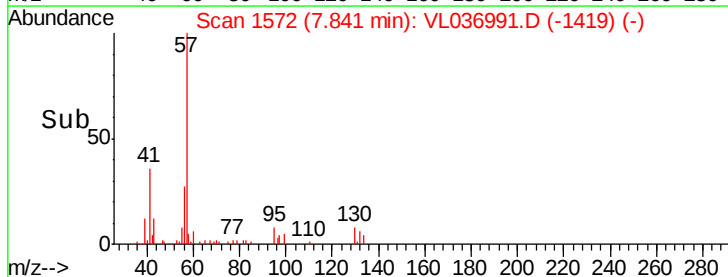
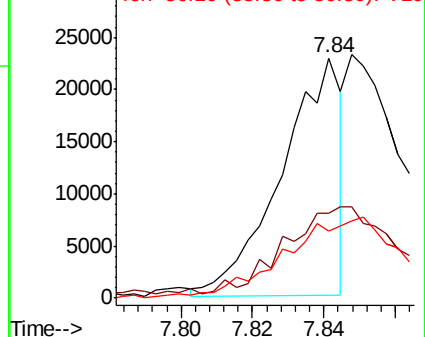
57 100

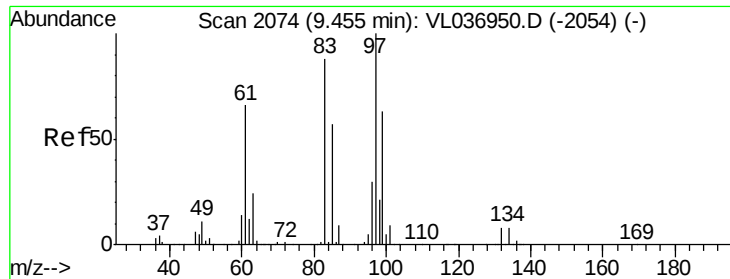
41 0.0 27.0 40.4#

56 0.0 25.4 38.2#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

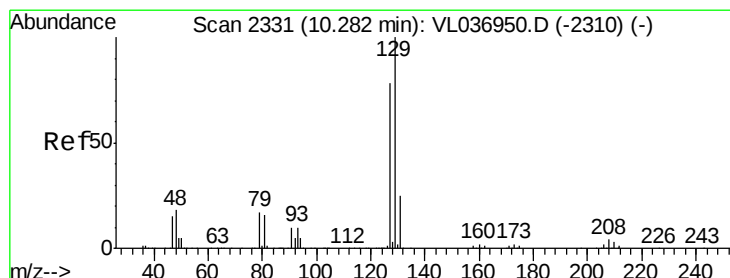
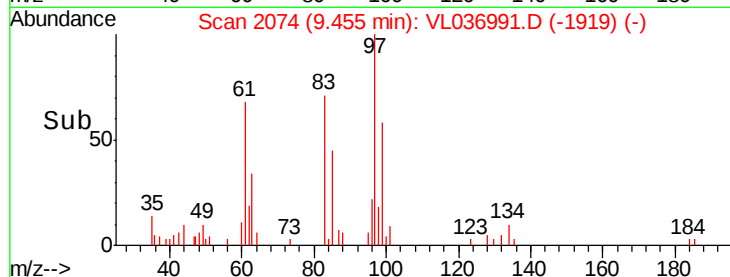
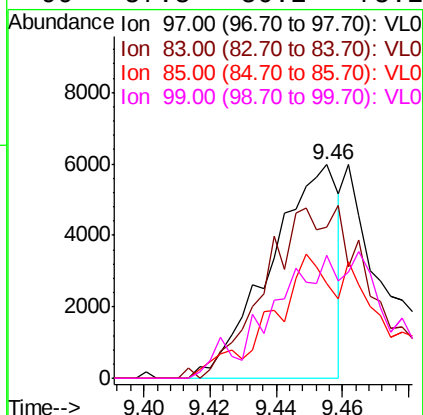
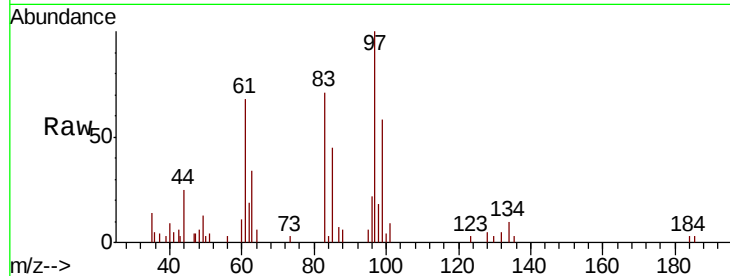




#47
 1,1,2-Trichloroethane
 Concen: 0.067 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

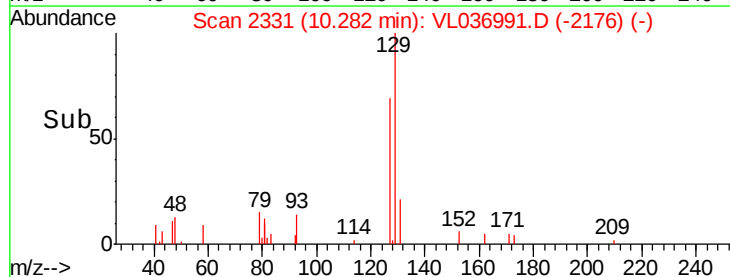
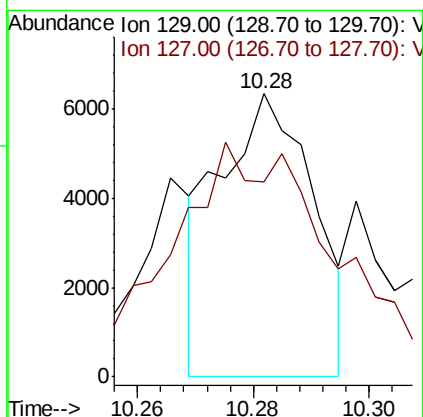
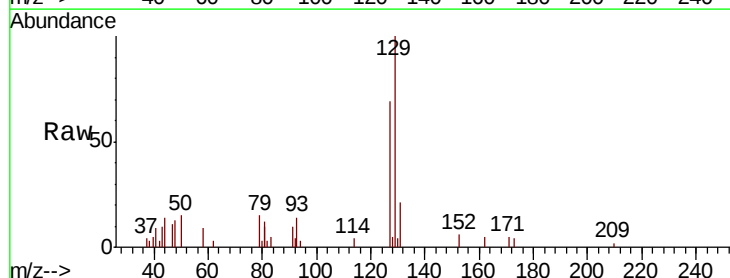
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

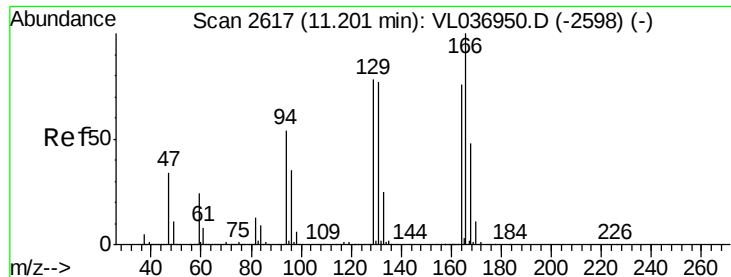
Tot Ion: 97 Resp: 8547
 Ion Ratio Lower Upper
 97 100
 83 66.3 70.4 105.6#
 85 44.6 45.5 68.3#
 99 57.8 50.2 75.2



#48
 Dibromochloromethane
 Concen: 0.035 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion: 129 Resp: 7165
 Ion Ratio Lower Upper
 129 100
 127 164.6 39.3 117.8#





#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 11.19 min Scan# 2612

Delta R.T. -0.02 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:164 Resp: 4485

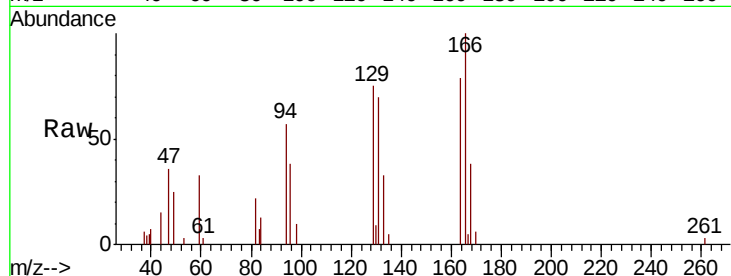
Ion Ratio Lower Upper

164 100

166 126.0 105.5 158.3

129 94.7 81.8 122.8

131 88.6 81.2 121.8

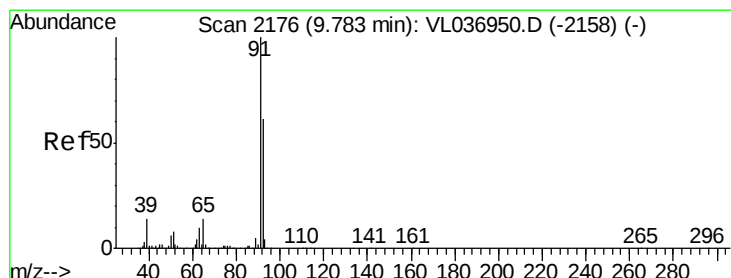
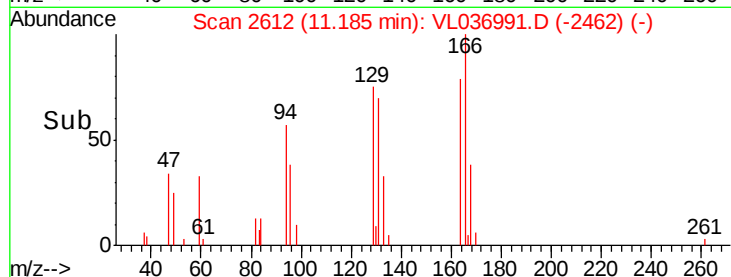
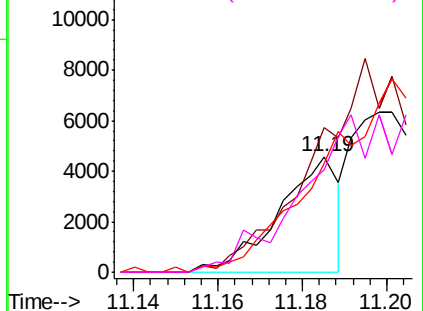


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.044 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL036991.D

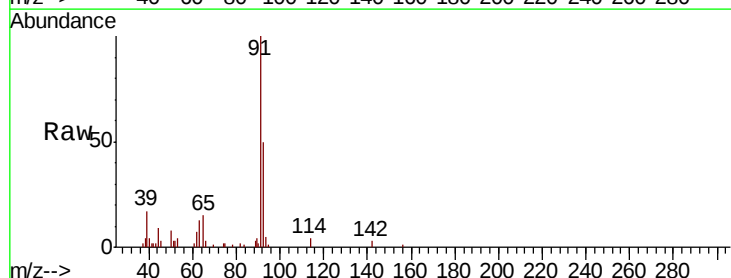
Acq: 19 May 2021 14:14

Tgt Ion: 91 Resp: 16600

Ion Ratio Lower Upper

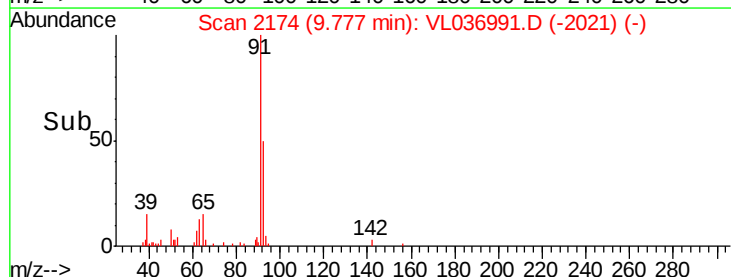
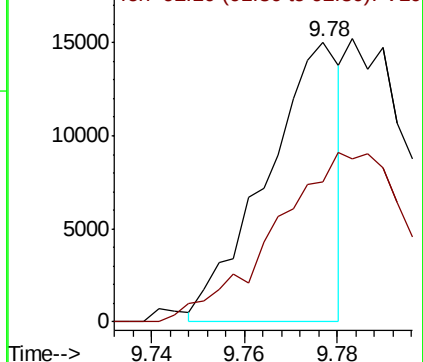
91 100

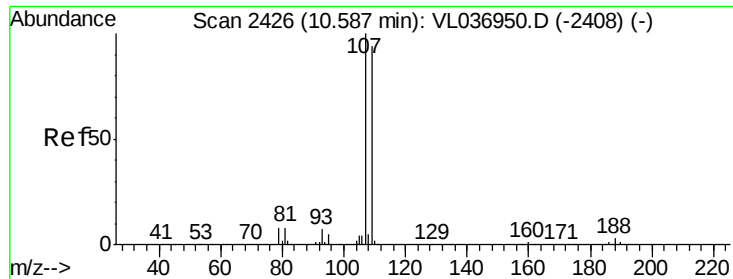
92 0.0 49.5 74.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

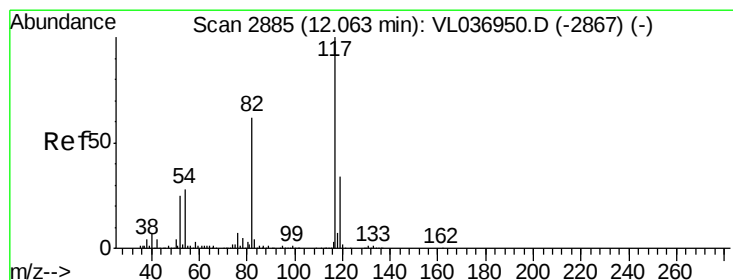
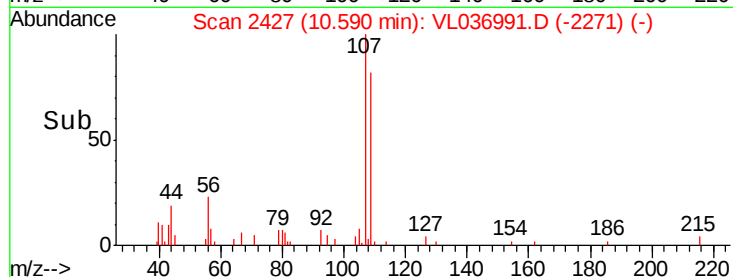
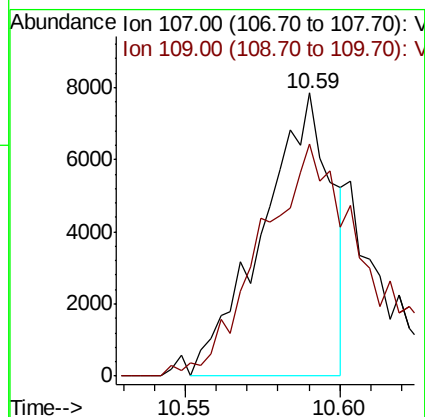
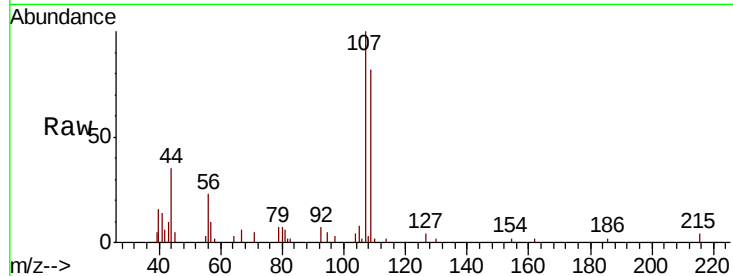




#54
 1,2-Dibromoethane
 Concen: 0.067 ppbv
 RT: 10.59 min Scan# 2427
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

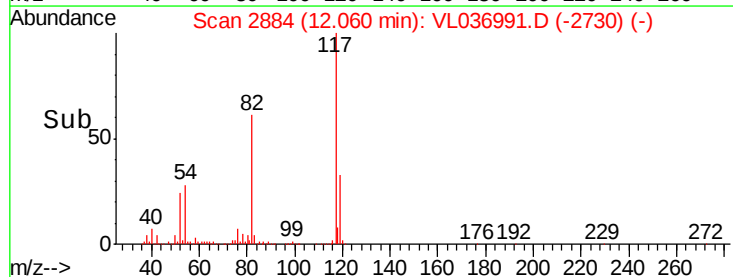
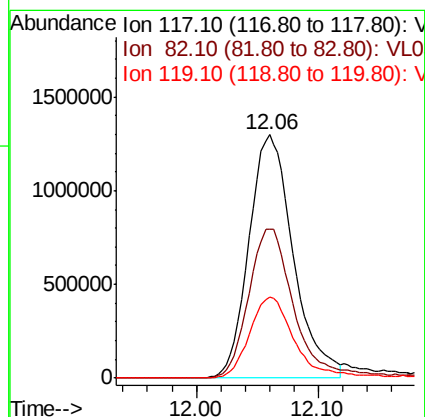
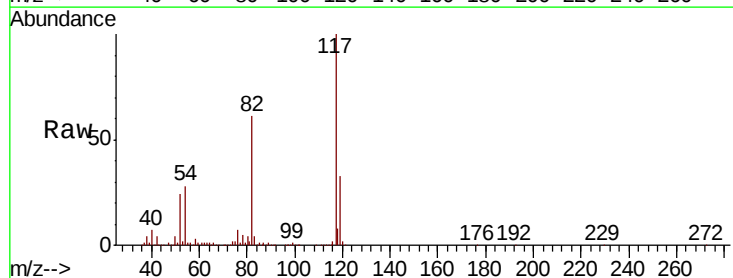
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

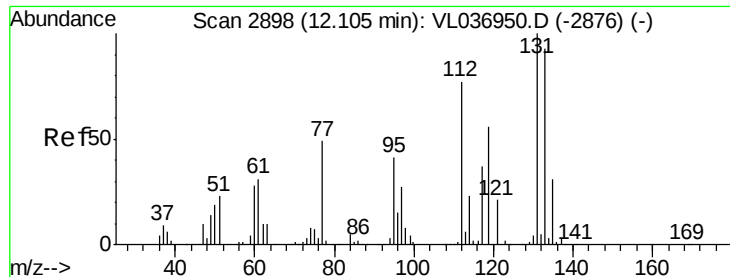
Tot Ion:107 Resp: 12158
 Ion Ratio Lower Upper
 107 100
 109 77.4 75.0 112.4



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min Scan# 2884
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion:117 Resp: 3251670
 Ion Ratio Lower Upper
 117 100
 82 65.8 52.6 79.0
 119 35.3 46.6 70.0#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.038 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

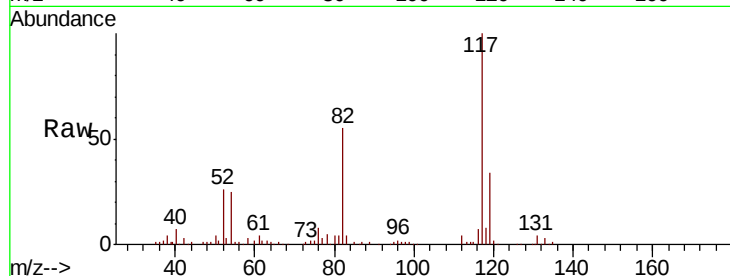
Tot Ion:131 Resp: 5139

Ion Ratio Lower Upper

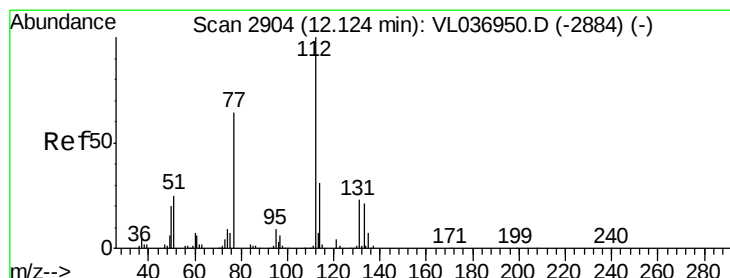
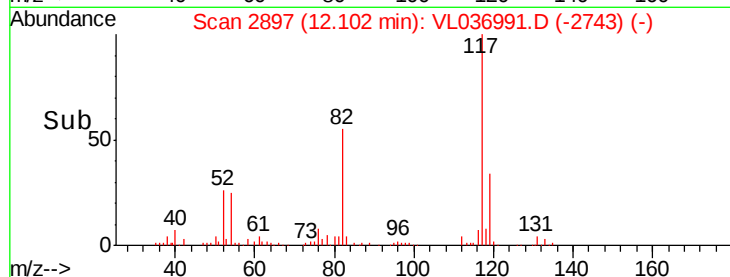
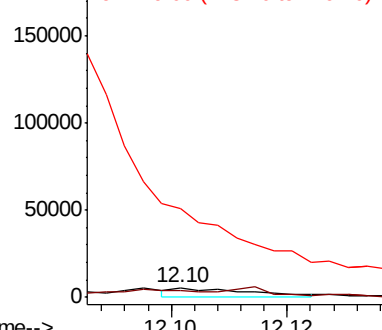
131 100

133 0.0 76.9 115.3#

119 0.0 120.2 180.4#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.069 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

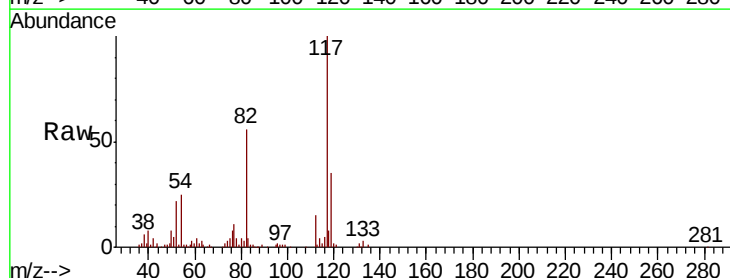
Tgt Ion:112 Resp: 17417

Ion Ratio Lower Upper

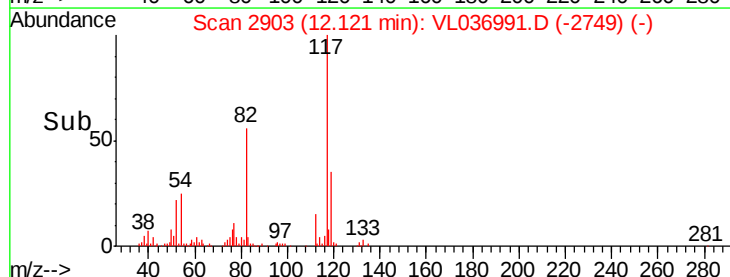
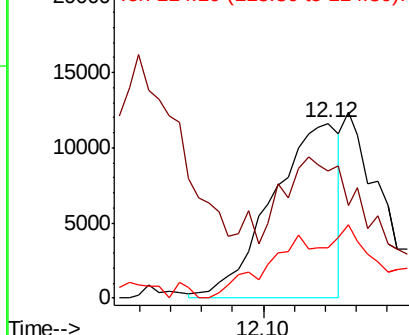
112 100

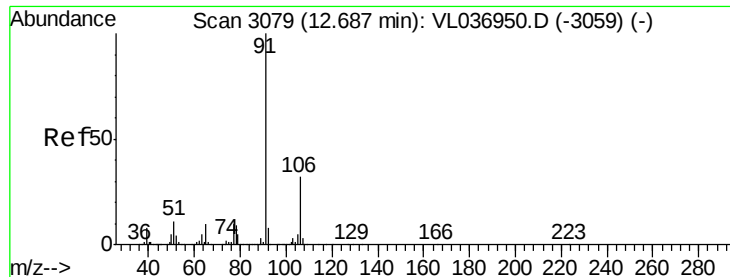
77 4.6 51.0 76.6#

114 21.4 28.3 34.5#



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): V
Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.059 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

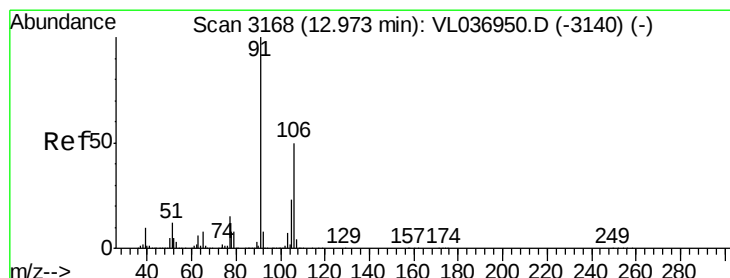
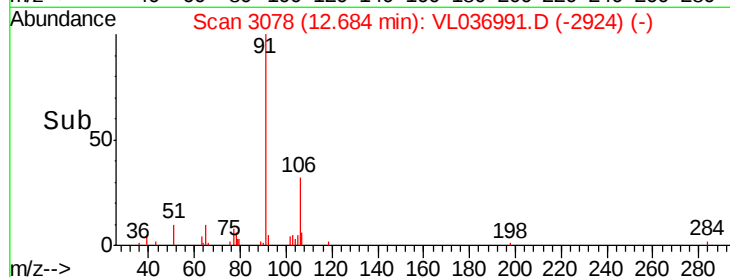
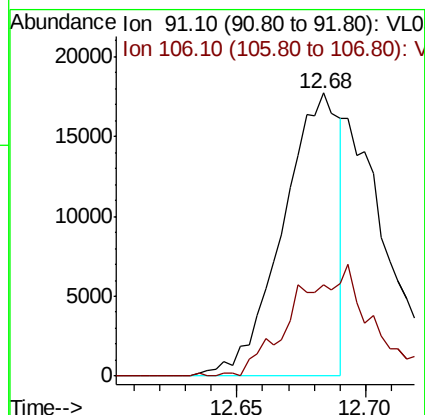
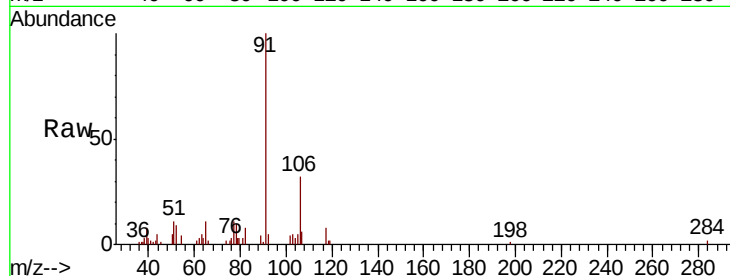
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 27037

Ion Ratio Lower Upper

91 100

106 32.2 25.6 38.4



#59

m/p-Xylene

Concen: 0.042 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.01 min

Lab File: VL036991.D

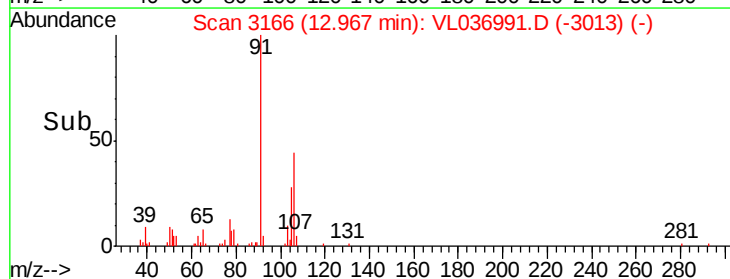
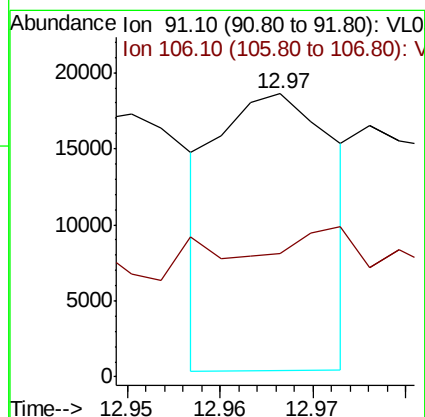
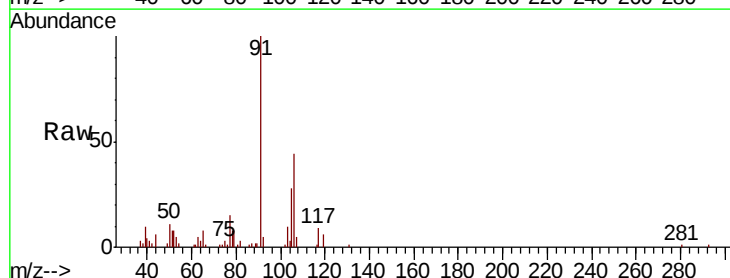
Acq: 19 May 2021 14:14

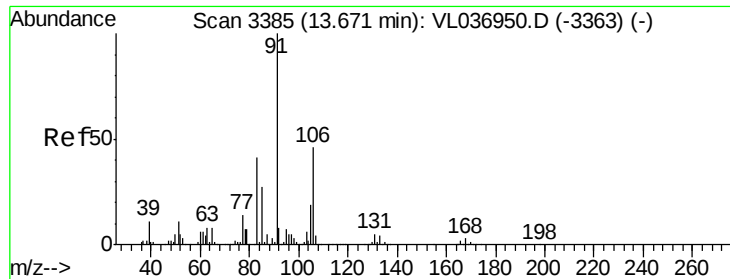
Tgt Ion: 91 Resp: 15933

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#

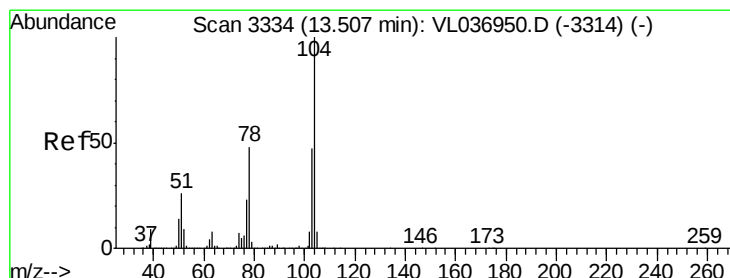
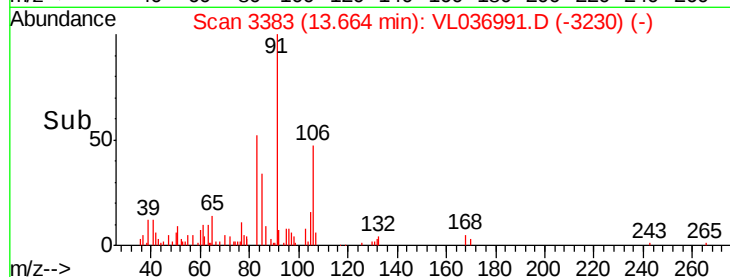
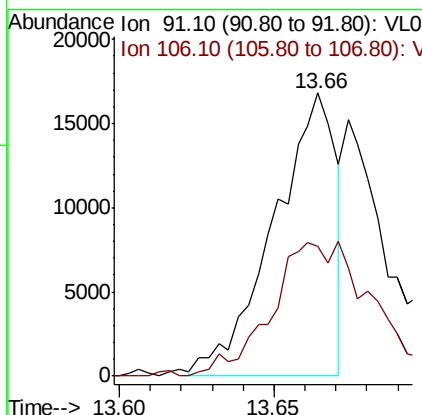
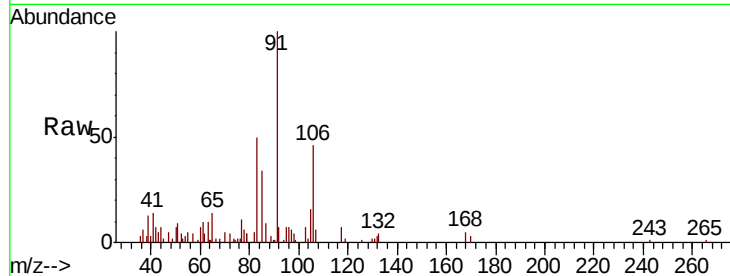




#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

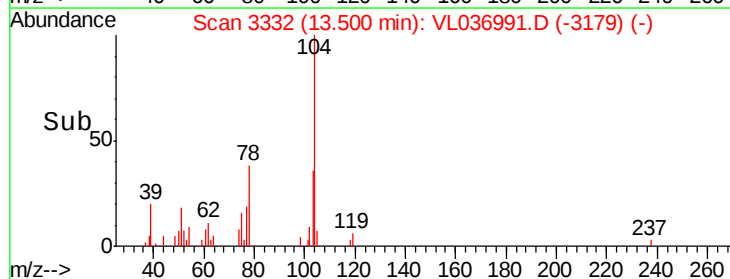
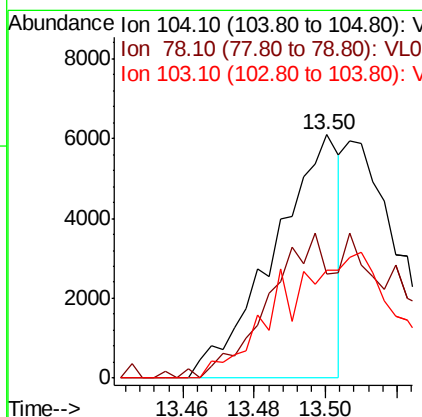
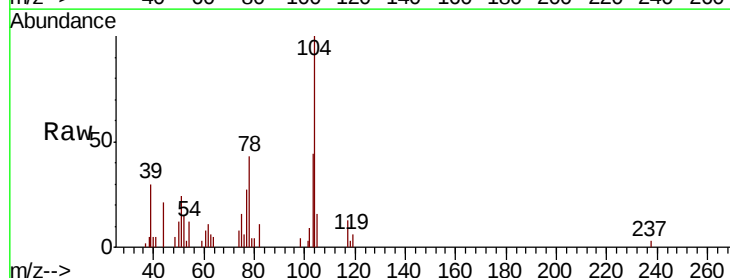
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

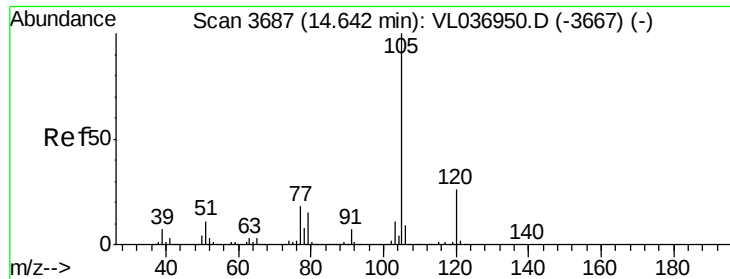
Tot Ion: 91 Resp: 23425
Ion Ratio Lower Upper
91 100
106 0.0 23.4 70.3#



#61
Styrene
Concen: 0.038 ppbv
RT: 13.50 min Scan# 3332
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion: 104 Resp: 7795
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 0.0 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 14.63 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

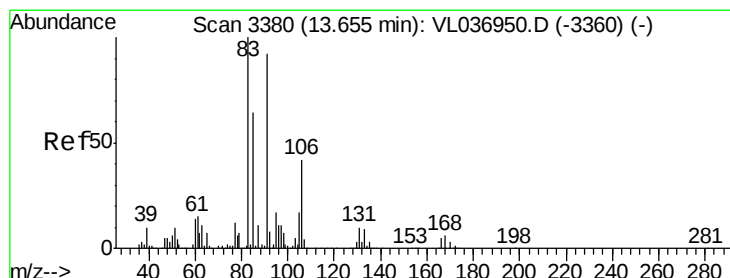
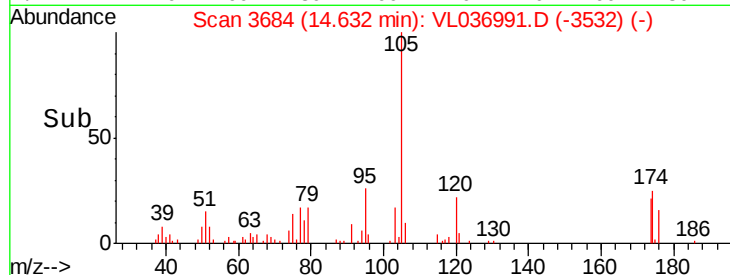
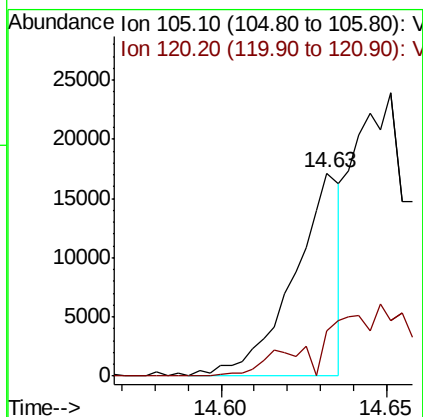
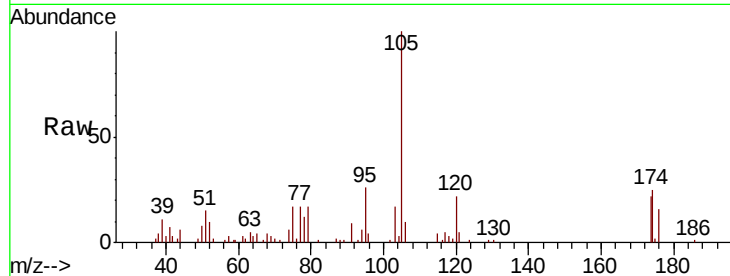
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 16855

Ion Ratio Lower Upper

105 100

120 0.0 21.7 32.5#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.030 ppbv

RT: 13.65 min Scan# 3378

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

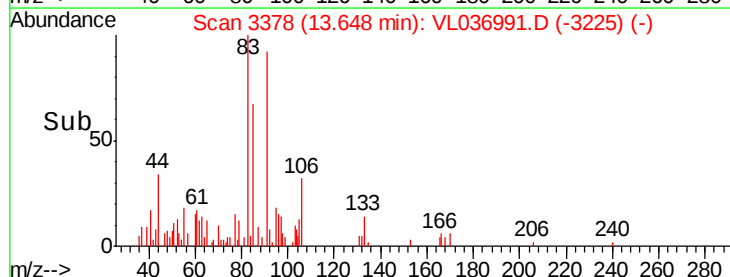
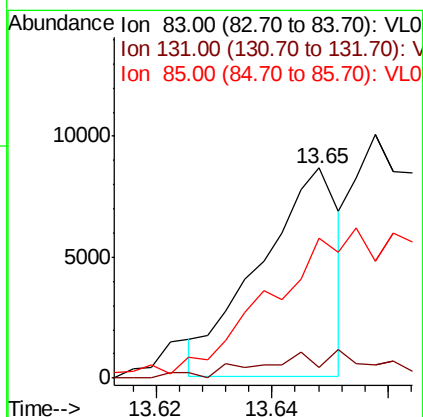
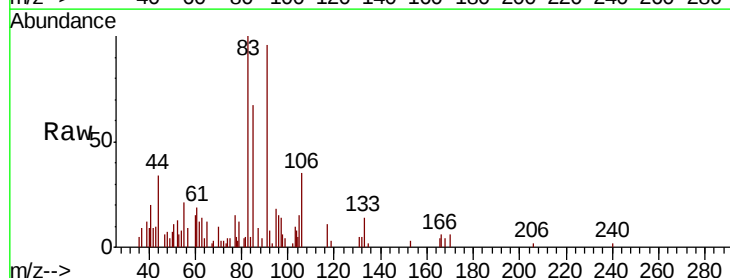
Tgt Ion: 83 Resp: 8183

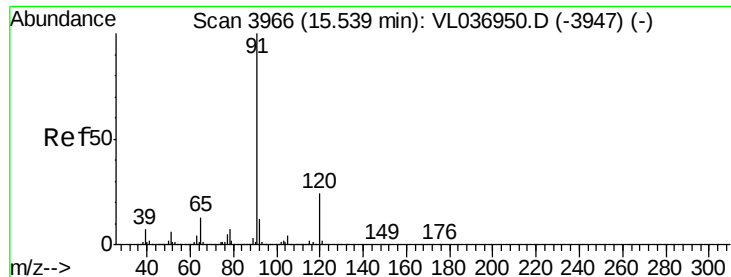
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 32.9 98.6#





#64

n-propylbenzene

Concen: 0.052 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

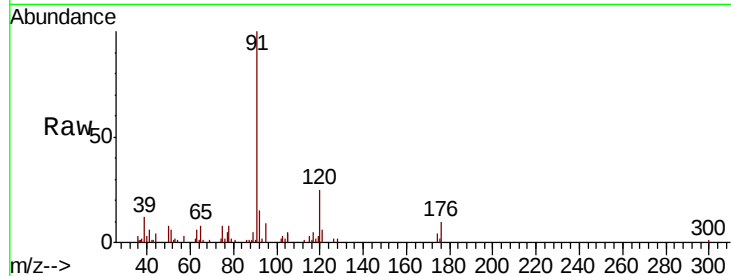
MDL-AIR-03-QT2-2021

Tot Ion:120 Resp: 6940

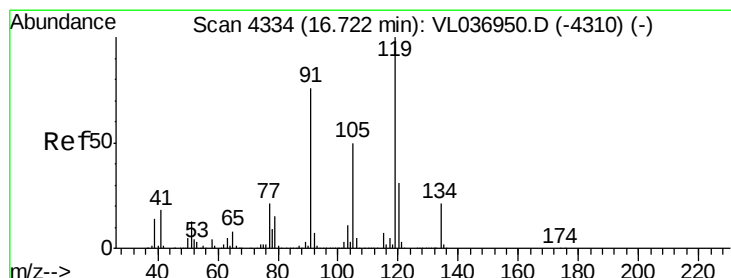
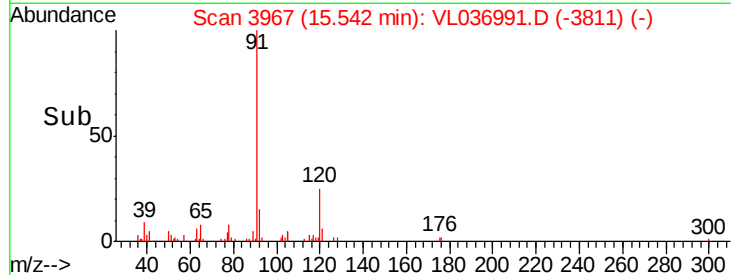
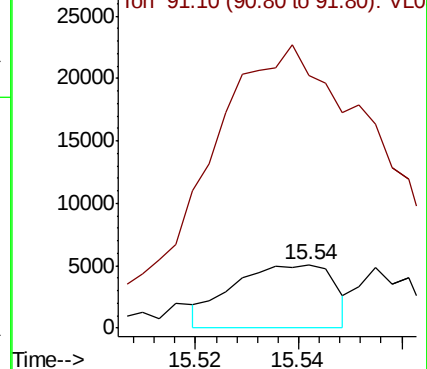
Ion Ratio Lower Upper

120 100

91 998.8 343.8 515.6#



Abundance Ion 120.20 (119.90 to 120.90): V



#65

tert-Butylbenzene

Concen: 0.058 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

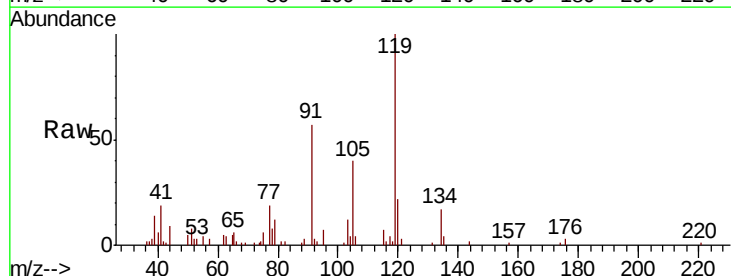
Tgt Ion:119 Resp: 27241

Ion Ratio Lower Upper

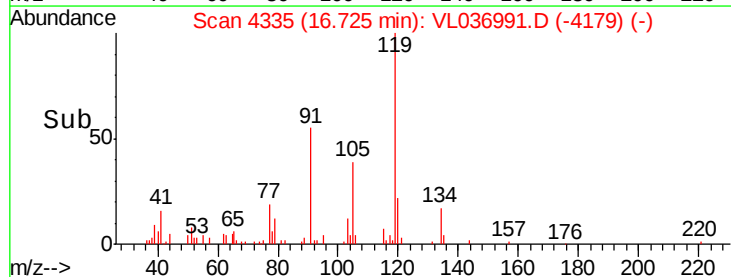
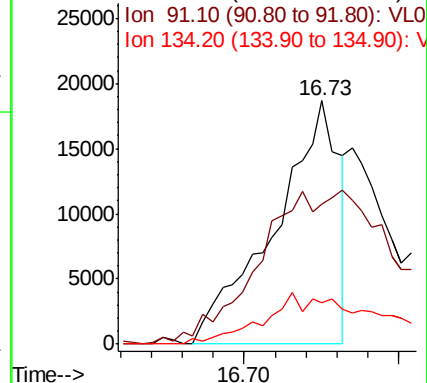
119 100

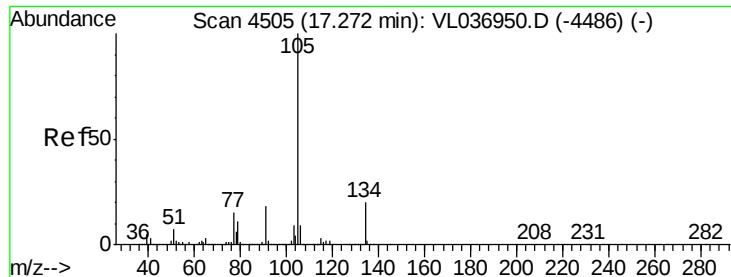
91 0.0 61.9 92.9#

134 40.2 16.2 24.4#



Abundance Ion 119.20 (118.90 to 119.90): V





#67

sec-Butylbenzene

Concen: 0.046 ppbv

RT: 17.28 min Scan# 4506

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

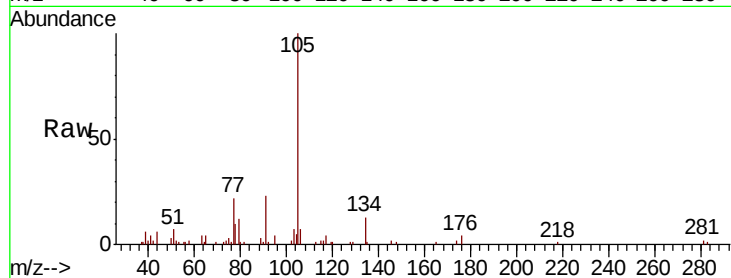
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 29132

Ion Ratio Lower Upper

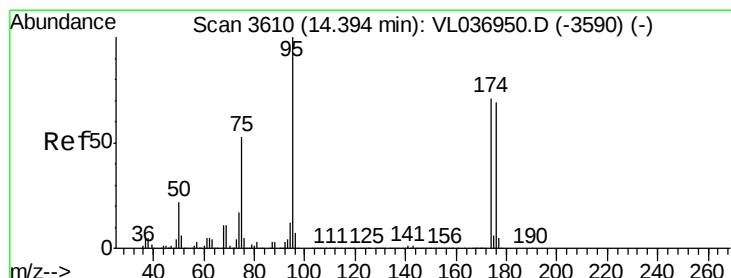
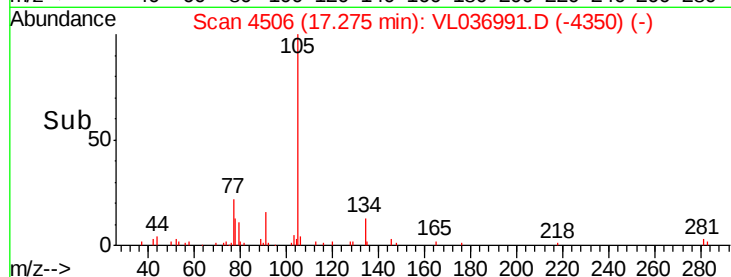
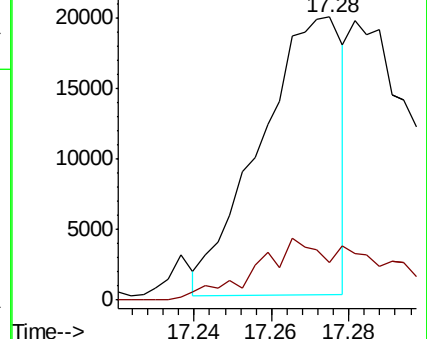
105 100

134 38.6 15.6 23.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.496 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

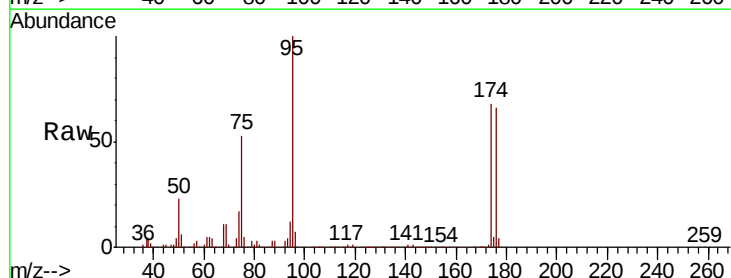
Tgt Ion: 95 Resp: 2563901

Ion Ratio Lower Upper

95 100

174 74.6 58.4 87.6

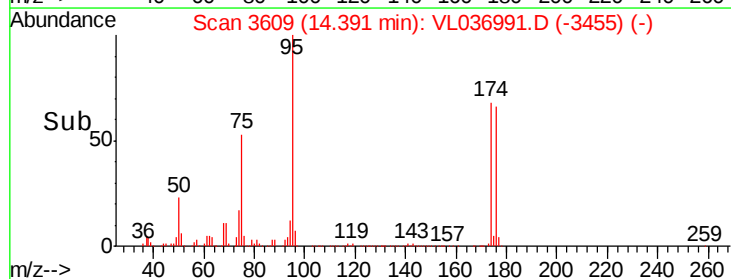
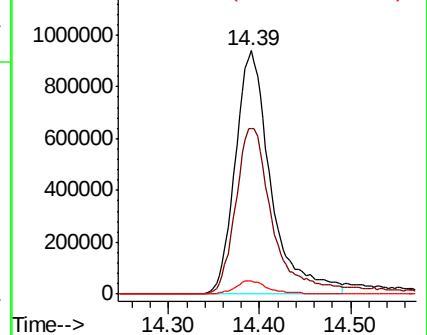
175 5.4 4.4 6.6

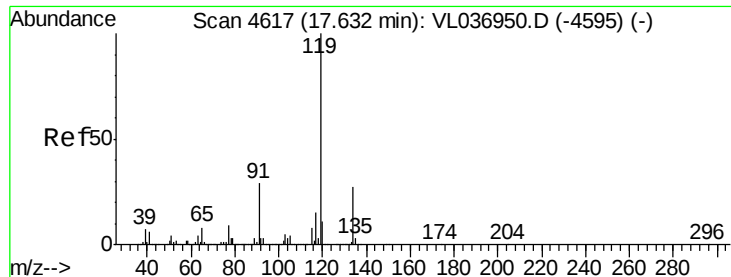


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

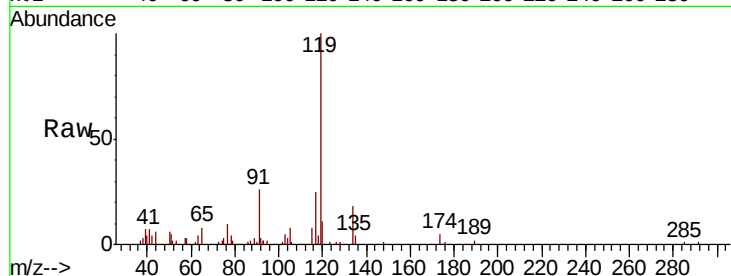




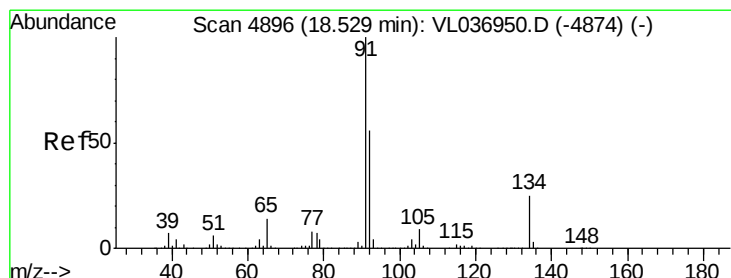
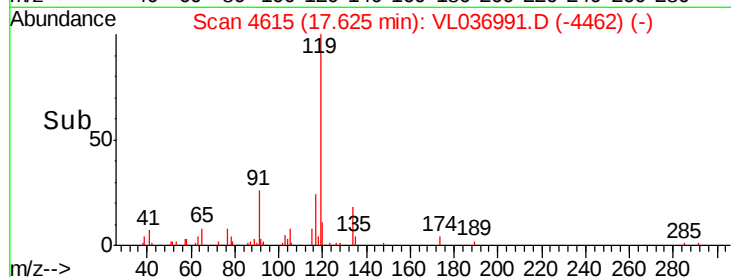
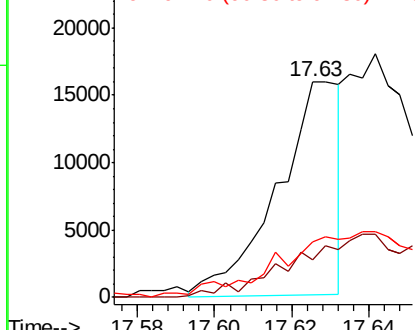
#69
 p-Isopropyltoluene
 Concen: 0.033 ppbv
 RT: 17.63 min Scan# 4615
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.2	31.8#
91	0.0	22.2	33.4#

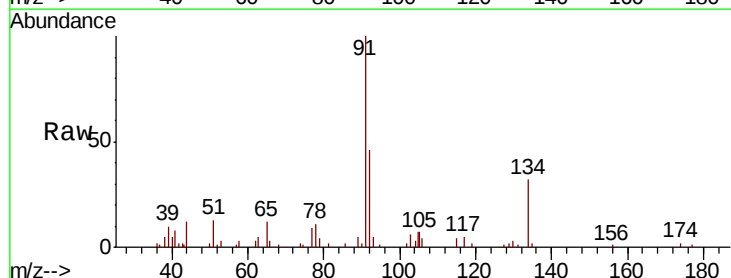


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

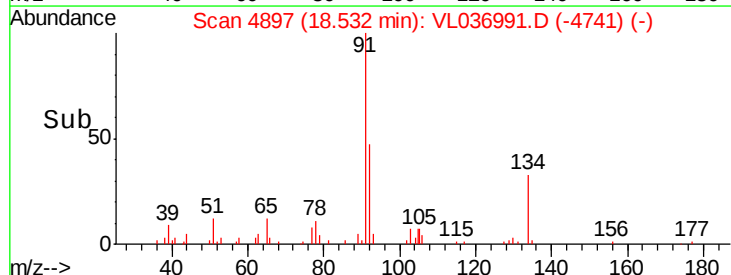
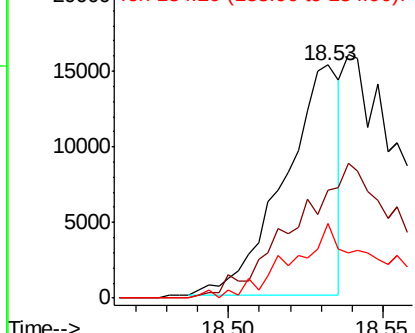


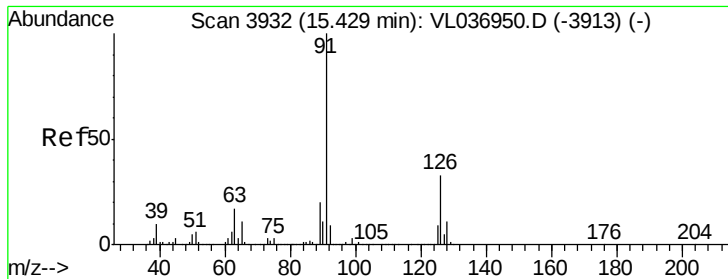
#70
 n-Butylbenzene
 Concen: 0.036 ppbv
 RT: 18.53 min Scan# 4897
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.6	66.8#
134	63.9	20.2	30.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.042 ppbv

RT: 15.42 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

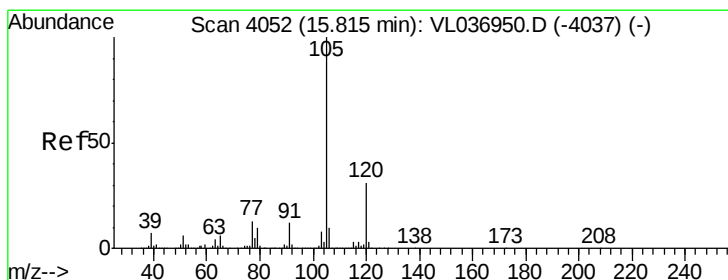
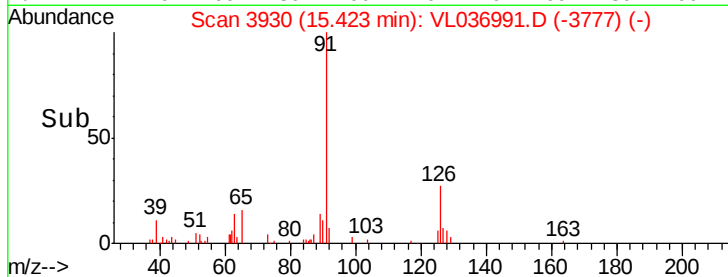
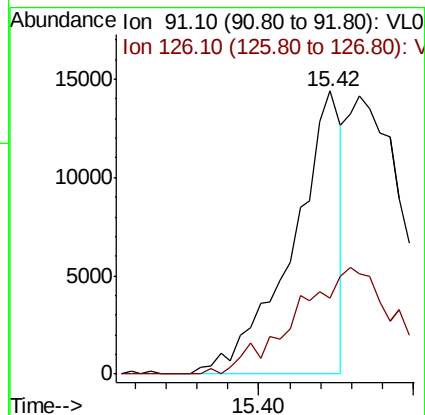
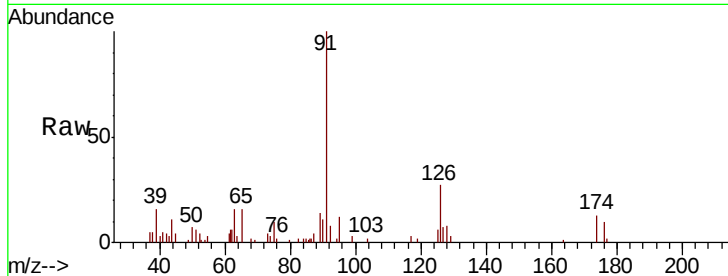
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 15796

Ion Ratio Lower Upper

91 100

126 0.0 13.1 52.5#



#72

4-Ethyltoluene

Concen: 0.039 ppbv

RT: 15.81 min Scan# 4051

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion:105 Resp: 16716

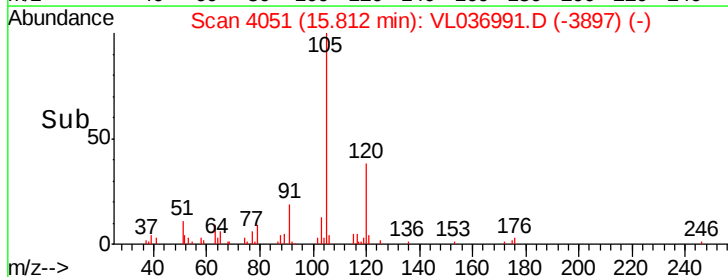
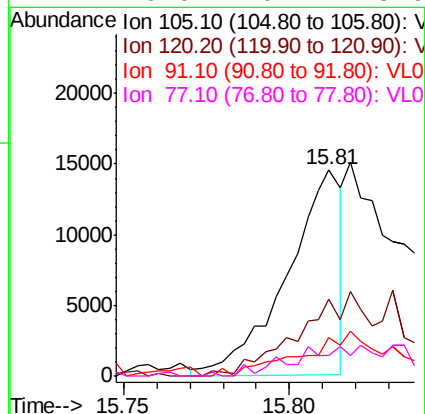
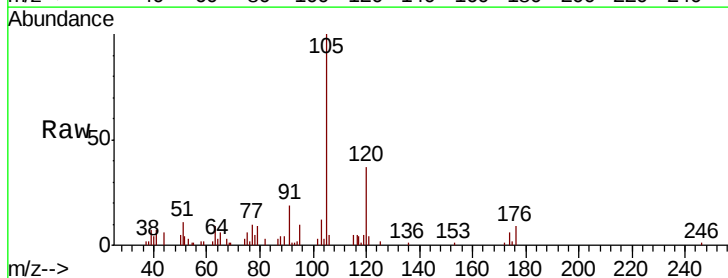
Ion Ratio Lower Upper

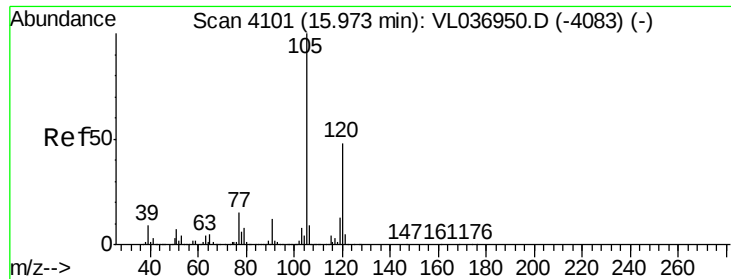
105 100

120 0.0 24.6 37.0#

91 0.0 9.8 14.6#

77 0.0 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.052 ppbv

RT: 15.97 min Scan# 4101

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

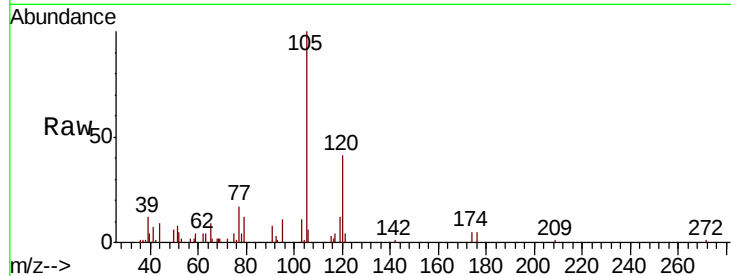
MDL-AIR-03-QT2-2021

Tot Ion:105 Resp: 21156

Ion Ratio Lower Upper

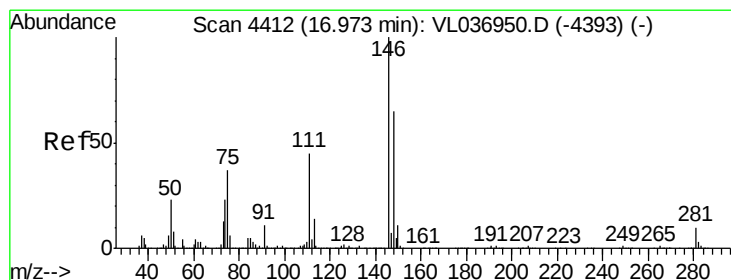
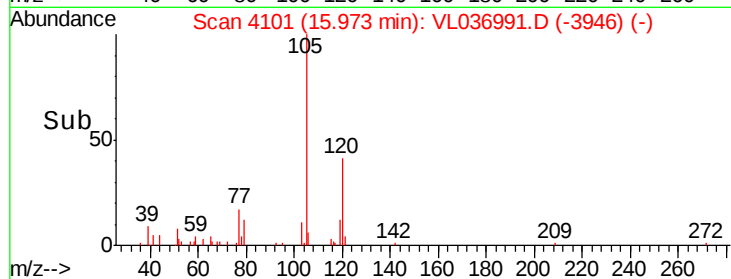
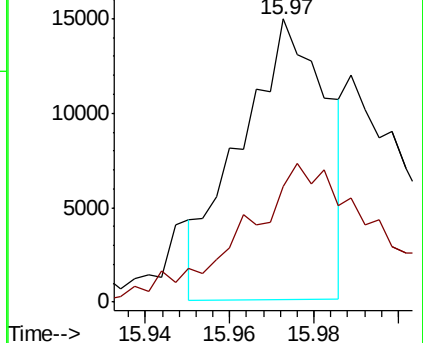
105 100

120 39.7 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 0.065 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

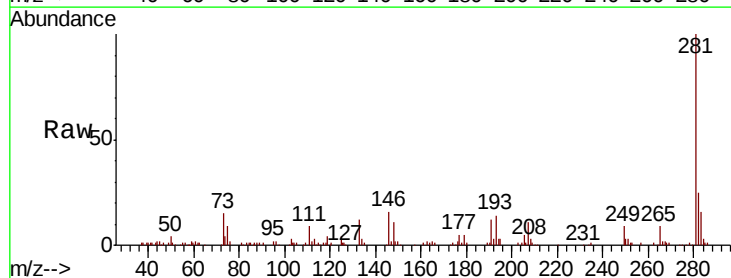
Tgt Ion:146 Resp: 16565

Ion Ratio Lower Upper

146 100

111 87.2 22.2 66.6#

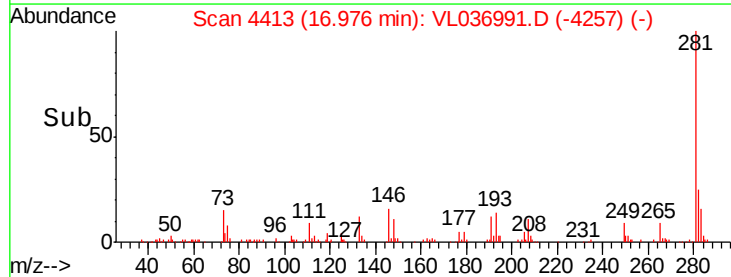
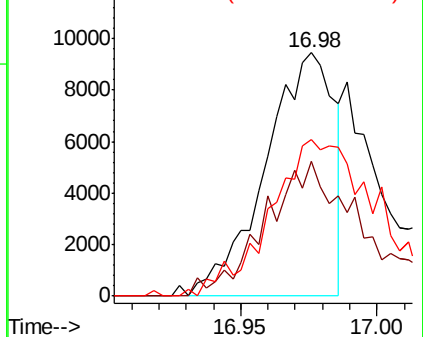
148 113.8 32.3 96.8#

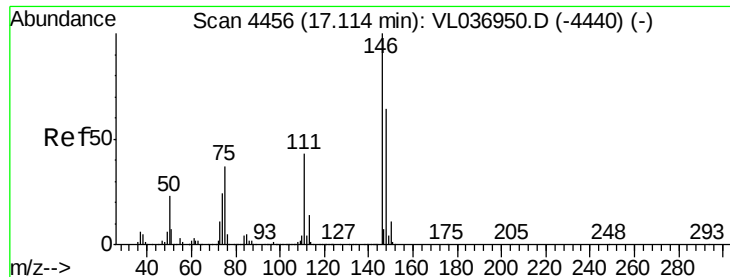


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.062 ppbv

RT: 17.12 min Scan# 4457

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

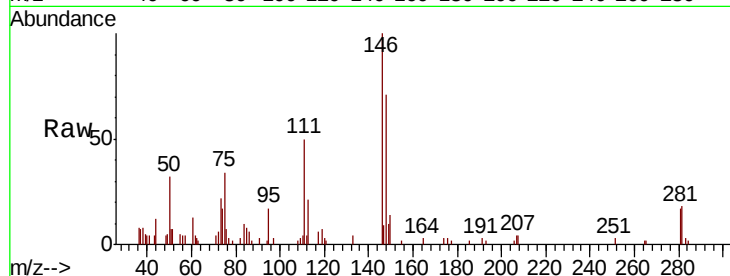
Tot Ion:146 Resp: 15863

Ion Ratio Lower Upper

146 100

111 89.0 22.6 67.7#

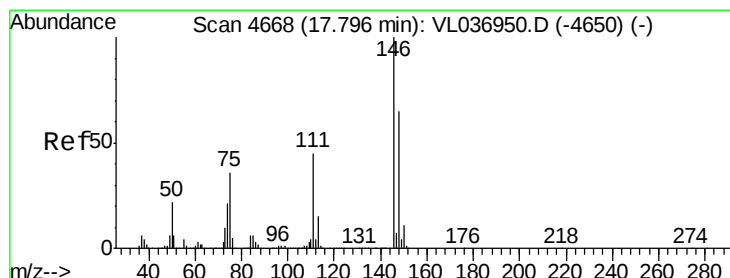
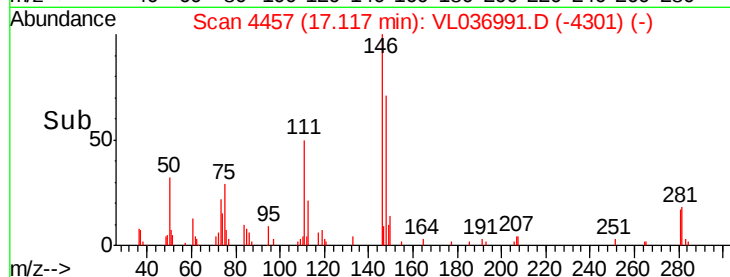
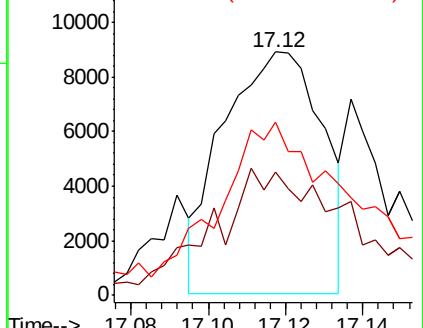
148 126.4 33.5 100.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.044 ppbv

RT: 17.79 min Scan# 4666

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

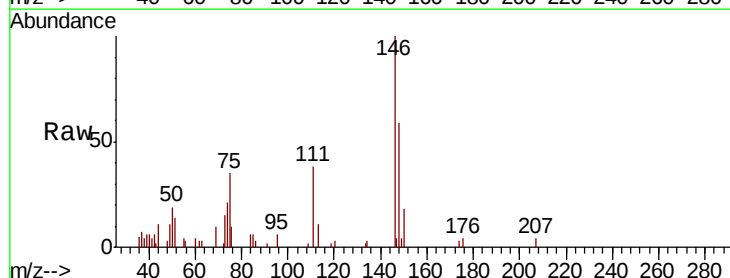
Tgt Ion:146 Resp: 11249

Ion Ratio Lower Upper

146 100

111 0.0 23.1 69.2#

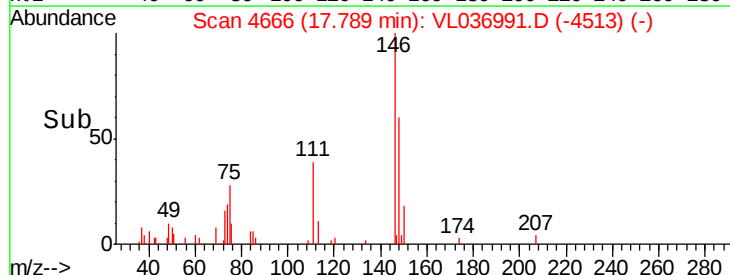
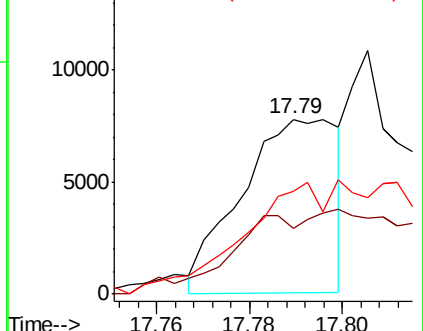
148 0.0 32.5 97.4#

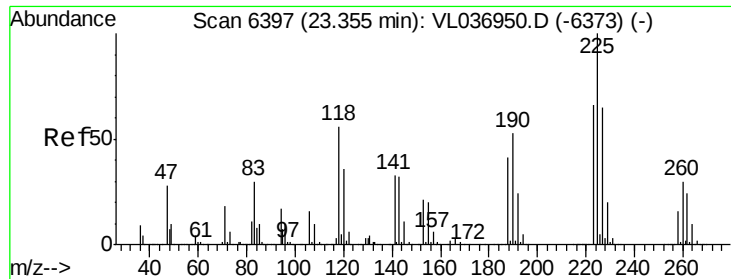


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.090 ppbv

RT: 23.36 min Scan# 6397

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

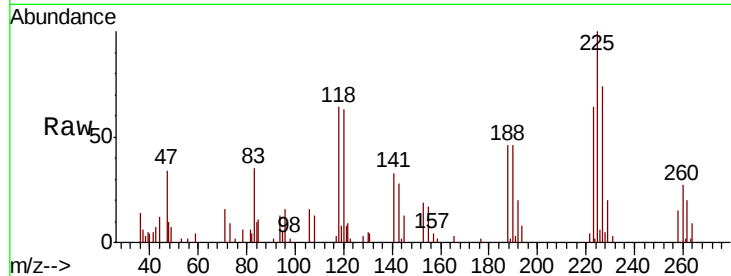
Tot Ion: 225 Resp: 18529

Ion Ratio Lower Upper

225 100

223 96.7 51.9 77.9#

227 98.8 51.8 77.6#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

